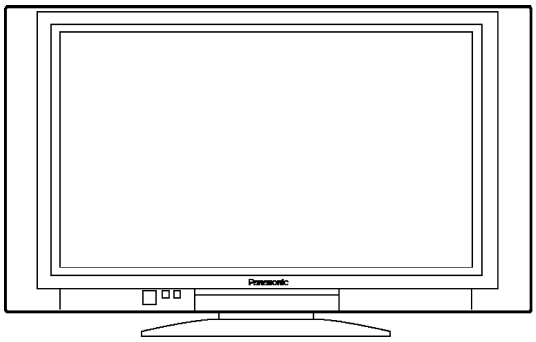
ORDER NO. ITD0306014C2

Service Manual

Progressive Plasma Television

TH-42PA20E / TH-42PA20B

GP6DE Chassis



SPECIFICATIONS

Specifications

Power Source	220 V - 240 V 50 Hz / 60 Hz A.C.
Power Consumption	
Normal use	313 W
Standby	1.8 W
Power-OFF	1.0 W
Plasma Display panel	
Drive method	AC type
Aspect Ratio	16:9
Contrast Ratio	4000:1
Screen size	42-inch
(No.of pixels)	920 mm (W) × 518 mm (H) × 1056 mm (diagonal)
	408, 960 (852 (W) × 480 (H)) [2, 556 × 480 dots]
Sound	
Speaker	L:Woofer (40 mm) × 4 + Tweeter (35 mm) × 1
	R:Woofer (40 mm) × 4 + Tweeter (35 mm) × 1
Audio Output	16 W (8 W +8 W) (10 %THD)
Headphone	M3 (3.5 mm) Jack × 1
Applicable signals	
Colour System	NTSC, PAL, PAL60, SECAM, Modified NTSC
Scanning format	525 (480) / 60i , 60p, 625 (575) / 50i , 50p
PC signals	VGA display
	VGA
	SVGA, XGA, SXGA, UXGA ..... (compressed)

	Horizontal scanning frequency 15 - 110 kHz	
	Vertical scanning frequency 48 - 120 Hz	
Receiving Systems/ Band name		
	PAL B, G, H, I, SECAM B, G SECAM L / L'	
	VHF E2 - E12	VHF H1 - H2 (ITALY)
	VHF A - H (ITALY)	UHF E21 - E69
	CATV (S01 - S05)	CATV S1 - S10 (M1 -M10)
	CATV S11 - S20 (U1 -U10)	CATV S21 - S41 (Hyperband)
	PAL D, K, SECAM D, K	
	VHF R1- R2	VHF R3 - R5
	VHF R6 - R12	UHF E21 - E69
	PAL 525/60	
	Playback of NTSC tape from some PAL video recorders (VCR)	
	M.NTSC	
	Playback from M.NTSC Videorecorders (VCR)	
	NTSC (AV INPUT ONLY)	
	Playback from NTSC Videorecorders (VCR)	
OUTPUT		
AUDIO OUT	AUDIO L-R (RCA Pin Type × 2)	0.5 Vrms
INPUT		
AV3-Front	VIDEO (RCA Pin Type × 2)	1.0 Vp-p (75 Ω)
	S-VIDEO (MINI DIN 4-pin)	Y:1.0 Vp-p (75 Ω) C:0.286 Vp-p (75 Ω)
	AUDIO L-R (RCA Pin Type × 2)	0.5 Vrms
AV4C-Rear	Y	1.0 Vp-p (including synchronization)
	PB /P	± 0.35 Vp-p
	R	
PC	(HIGH-DENSITY D-SUB 15PIN)	R, G, B/0.7 Vp-p (75-ohm)
		HD, VD/1.0 -5.0 Vp-p (high impedance)
	AUDIO L-R (RCA Pin Type)	0.5 Vrms (high impedance)
INPUT/OUTPUT		
AV1-Rear	21 Pin socket (Audio/Video in, TV out, RGB in)	
AV2-Rear	21 Pin socket (Audio/Video in, Audio/Video out, S-Video in, Q-Link)	
AV4-Rear	21 Pin socket (Audio/Video in, Audio/Video out, S-Video in, RGB in, Q-Link)	
ANT-Rear	UHF / VHF	
Operating Conditions	Temperature :0° - 40°C	
	Humidity :20 % - 80 %RH (non-condensing)	
Accessories Supplied		
Remote Control Transmitter	N2QAJB000081	
Batteries	2 × R6 Size	
Fixing band	(TMME203 or TMME 187) × 1	
Ferrite core	Large size × 3, Small size × 5	
Dimensions (W × H × D)	1170 mm × 658 mm × 99 mm	
Mass (Weight)	35.0 kg	

[]

Notes:

(1) Design and specifications are subject to change without notice.Mass and dimensions shown are approximate.

(2) This equipment complies with the EMC standards listed below.
EN55013, EN61000-3-2, EN61000-3-3, EN55020.

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic®

1. Applicable signals

Applicable input signals for PC Input (D-sub 15P) (* Mark)

	Signal name	Horizontal frequency(kHz)	Vertical frequency(Hz)	PC
1	640 × 400 @70 Hz	31.47	70.00	*
2	640 × 480 @60 Hz	31.47	59.94	*
3	Macintosh13" (640 × 480)	35.00	66.67	*
4	640 × 480 @75 Hz	37.50	75.00	*
5	852 × 480 @60 Hz	31.50	60.00	*
6	800 × 600 @60 Hz	37.88	60.32	*
7	800 × 600 @75 Hz	46.88	75.00	*
8	800 × 600 @85 Hz	53.67	85.06	*
9	Macintosh16" (832 × 624)	49.73	74.55	*
10	1,024 × 768 @60 Hz	48.36	60.00	*
11	1,024 × 768 @70 Hz	56.48	70.07	*
12	1,024 × 768 @75 Hz	60.02	75.03	*
13	1,024 × 768 @85 Hz	68.68	85.00	*
14	Macintosh21" (1,152 × 870)	68.68	75.06	*
15	1,280 × 1,024 @60 Hz	63.98	60.02	*
16	1,280 × 1,024 @75 Hz	79.98	75.03	*
17	1,280 × 1,024 @85 Hz	91.15	85.02	*
18	1,600 × 1,200 @60 Hz	75.00	60.00	*

Note:
Signals without above specification may not be displayed properly.

2. Safety Precautions

2.1. General Guidelines

1. **When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.**
2. **After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly**

installed.

3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

2.2. Touch-Current Check

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.

2. Connect a measuring network for touch currents between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.

3. Use Leakage Current Tester (Simpson 228 or equivalent) to measure the potential across the measuring network.

4. Check each exposed metallic part, and measure the voltage at each point.

5. Reserve the AC plug in the AC outlet and repeat each of the above measure.

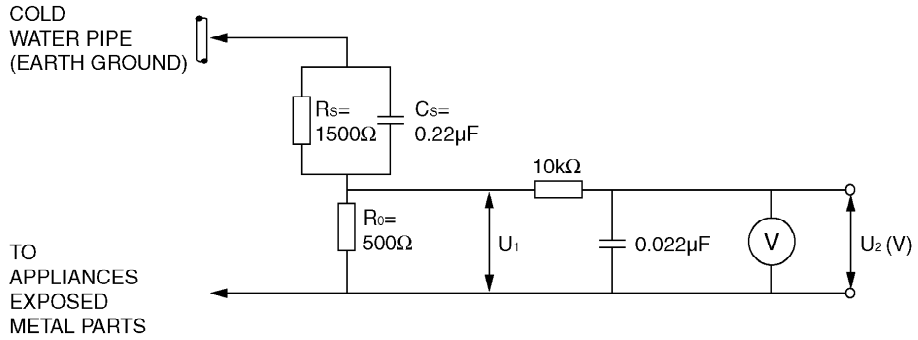
6. The potential at any point (TOUGH CURRENT) expressed as voltage U_1 and U_2 , does not exceed the following values:
For a. c.: U_1 = 35 V (peak) and U_2 = 0.35 V (peak);
For d. c.: U_1 = 1.0 V,

Note:
The limit value of U_2 = 0.35 V (peak) for a. c. and U_1 = 1.0 V for d. c. correspond to the values 0.7 mA (peak) a. c. and 2.0 mA d. c.
The limit value U_1 = 35 V (peak) for a. c. correspond to the value 70 mA (peak) a. c. for frequencies greater than 100 kHz.

7. In case a measurement is out of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

Figure 1

Measuring network for TOUCH CURRENTS



Resistance values in ohms (Ω)

V: Voltmeter or oscilloscope
(r.m.s. or peak reading)

Input resistance: ≥ 1 MΩ
Input capacitance: ≤ 200 pF
Frequency range: 15 Hz to 1 MHz and d.c. respectively

NOTE - Appropriate measures should be taken to obtain the correct value in case of non-sinusoidal waveforms.

3. Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistorsand semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. **Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, whichshould be removed for potential shock reasons prior to applying power to the unit under test.**
2. **After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.**
3. **Use only a grounded-tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.**
5. **Do not use freon-propelled chemicals. These can generate**

electrical charges sufficient to damage ES devices.

6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparableconductive material).**
7. **Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.**

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. **Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient todamage an ES device).**

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

4. About lead free solder (PbF)

Note: Lead is listed as (Pb) in the periodic table of elements.
In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.
The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).
That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.
This model uses Pb Free solder in it's manufacture due to environmental conservation issues.
For service and repair work, we'd suggest the use of Pb free solder as well, although Pb solder may be used.
PCBs manufactured using lead free solder will have the PbF within a leaf Symbol



stamped on the back of PCB.

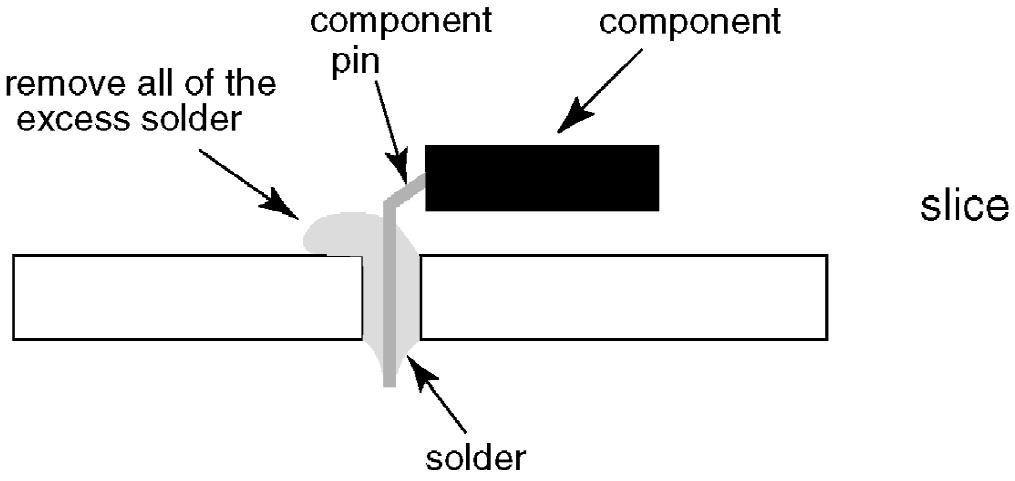
Caution

- Pb free solder has a higher melting point than standard solder. Typically the melting point is 50 ~ 70 °F (30~40 °C) higher. Please

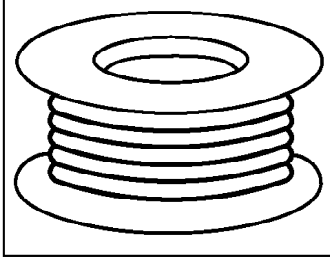
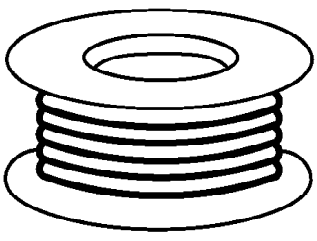
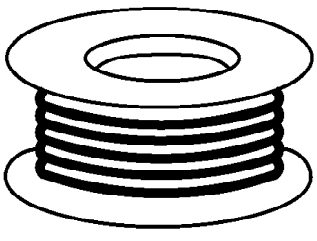
use a high temperature soldering iron and set it to 700 ± 20 °F (370 ± 10 °C).

- Pb free solder will tend to splash when heated too high (about 1100 °F or 600 °C).
If you must use Pb solder, please completely remove all of the Pb free solder on the pins or solder area before applying Pb solder. If this is not practical, be sure to heat the Pb free solder until it melts, before applying Pb solder.

- After applying PbF solder to double layered boards, please check the component side for excess solder which may flow onto the opposite side. (see figure below)

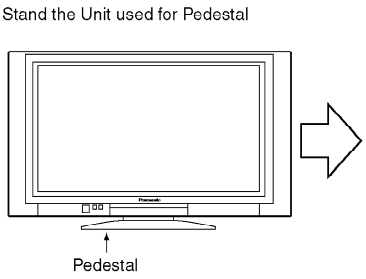


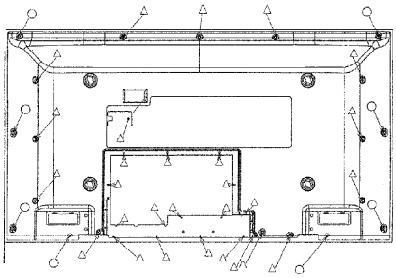
Suggested Pb free solder
There are several kinds of Pb free solder available for purchase. This product uses Sn+Ag+Cu (tin, silver, copper) solder. However, Sn+Cu (tin, copper), Sn+Zn+Bi (tin, zinc, bismuth) solder can also beused.

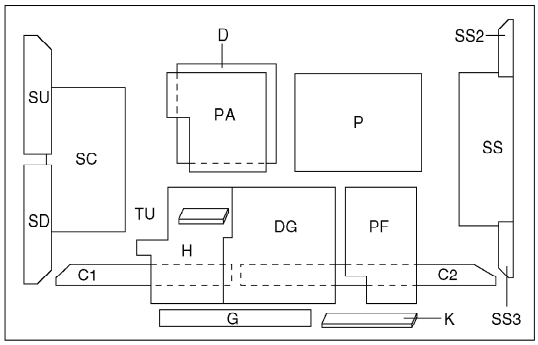
0.3mm X 100g	0.6mm X 100g	1.0mm X 100g
		

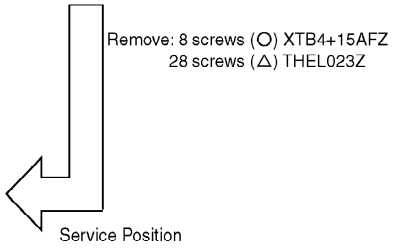
5. Service Hint

Remove the Back Cover









Board Name	Function	Board Name	Function
C1	DATA DRIVER (RIGHT)	PF	LINE FILTER
C2	DATA DRIVER (LEFT)	SC	SCAN DRIVE
D	DIGTAL SIGNAL PROCESS	SD	SCAN OUT (DOWN)
DG	DIGTAL CORE, MICOM	SS	SUSTAIN DRIVE
G	FRONT TERMINAL, SWITCH	SS2	SUSTAIN CONNECTION (UP)
H	REAE TERMINAL	SS3	SUSTAIN CONNECTION (DOWN)
K	LED, REMOTE, POWER SWITCH	SU	SCAN OUT (UP)
P	POWER SUPPLY	TU	TUNER
PA	DC/DC, AUDIO		

6. Plasma panel replacement method

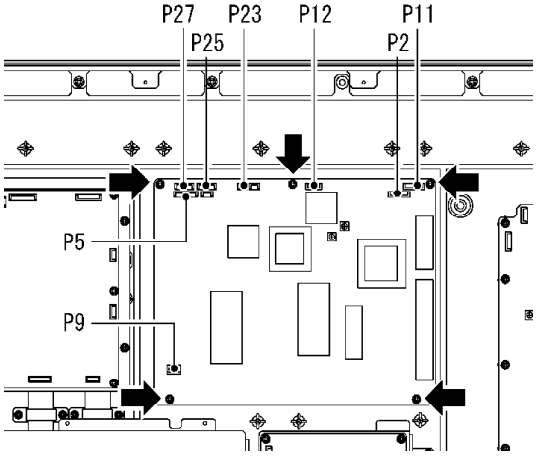
■ **To replace the plasma panel (finished), place the unit on the servicing stand, remove the front frame (finished), and attach the panel, being careful not to scratch the plasma panel surface.**

1. Remove the rear cover.

2. Remove the P module.

A. Remove the couplers (P2, P5, P9, P11, P12, P23, P25, P27) connected to the P module.

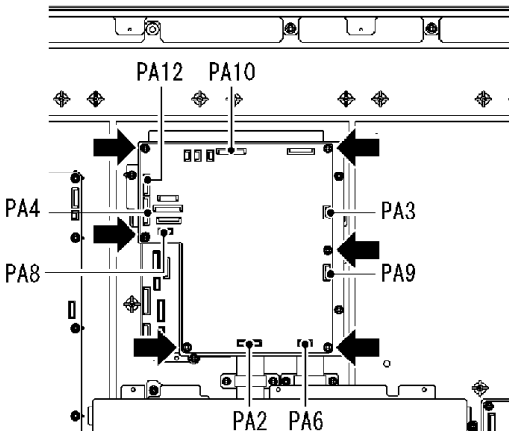
B. Remove the P module fastening screws (×5) and remove the P module.



3. Remove the PA module.

A. Remove the couplers (PA2, PA3, PA4, PA6, PA8, PA9, PA10, PA12) connected to the PA module.

B. Remove the PA module fastening screws (×6) and remove the PA module.

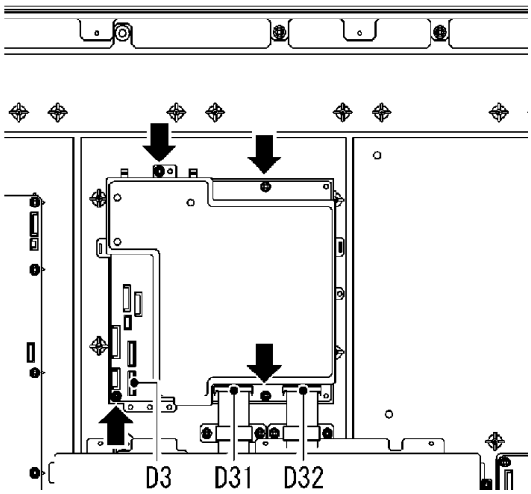


4. Remove the D module.

A. Remove the coupler (D3) connected to the D module.

B. Remove the flexible cables (D31, D32) connected to the D module.

C. Remove the D module fastening screws (×4) and remove the D module.

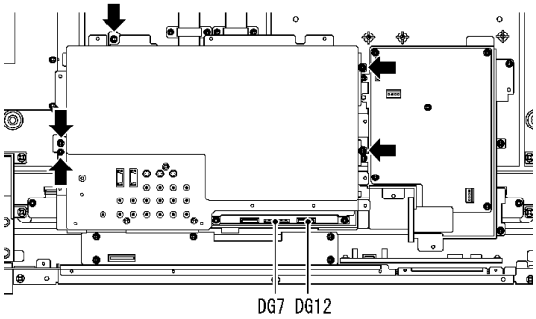


5. Remove the signal processing unit.

A. Remove the coupler (DG12) connected to the signal processing unit.

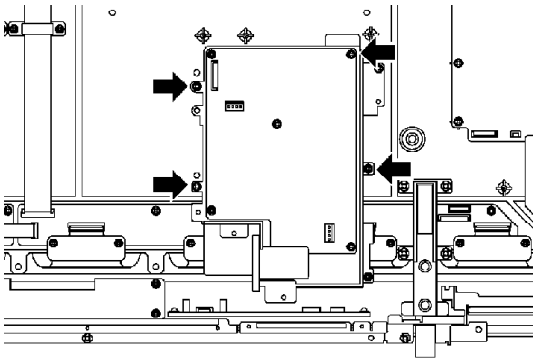
B. Remove the flexible cable (DG7) connected to the signal processing unit.

C. Remove the signal processing unit fastening screws (×5), and remove the signal processing unit.



6. Remove the power supply unit.

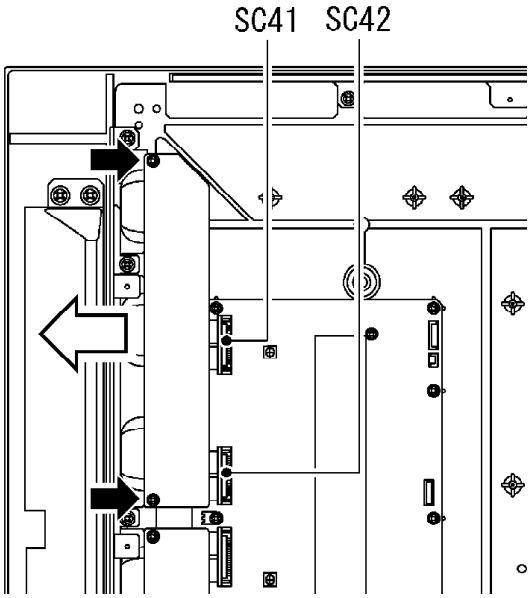
A. Remove the PF module fastening screws (×4), and remove the power supply unit.



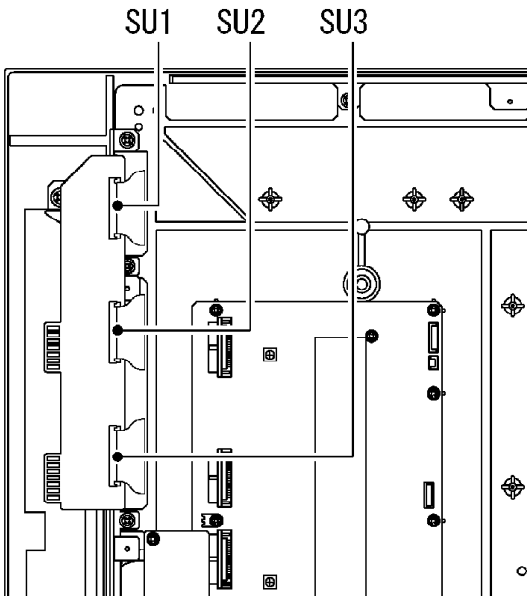
7. Remove the SU module.

A. Remove the SU module fastening screws (×2).

B. Move the SU module to the left and disconnect from the couplers (SC41, SC42) on the SC module.



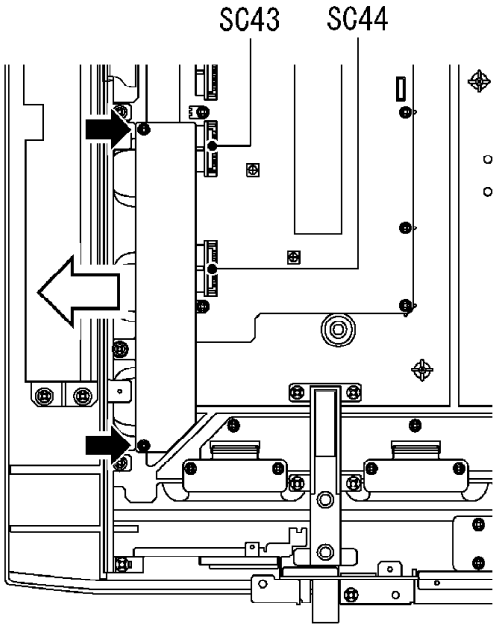
C. Remove the flexible cables (SU1, SU2, SU3) connected to the SU module, and remove the SU module.



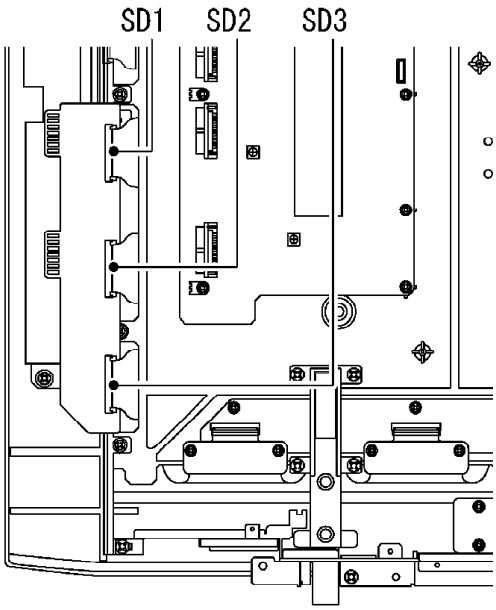
8. Remove the SD module.

A. Remove the SD module fastening screws (×2).

B. Move the SD module to the left and disconnect from the couplers (SC43, SC44) on the SC module.

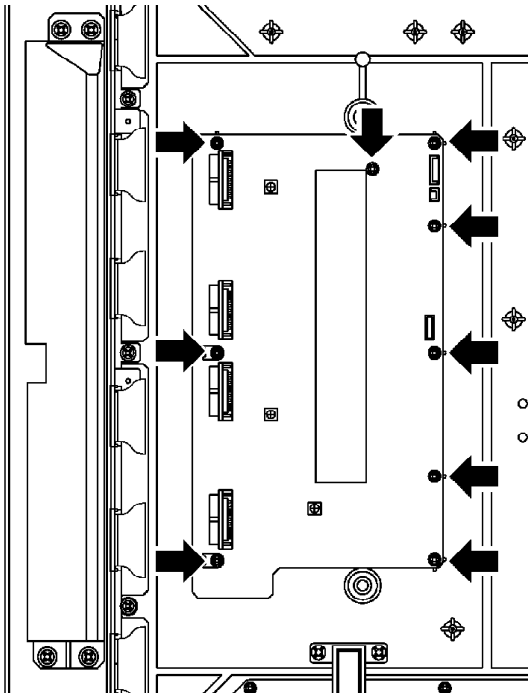


C. Remove the flexible cables (SD1, SD2, SD3) connected to the SD module, and remove the SD module.



9. Remove the SC module.

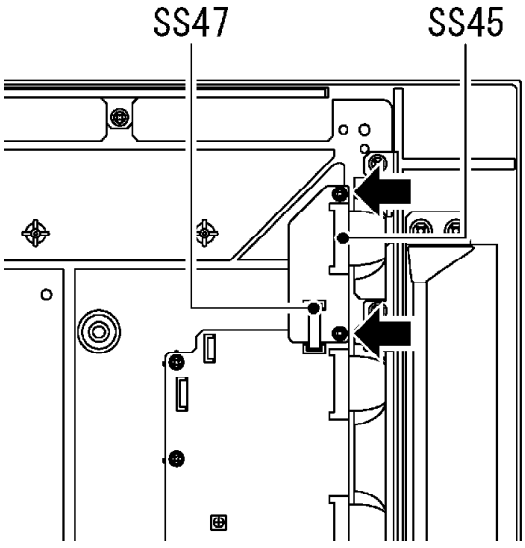
A. Remove the SC module fastening screws (×9) and remove the SC module.



10. Remove the SS2 module.

A. Remove the coupler (SS47) connected to the SS2 module, and remove the flexible cable (SS47).

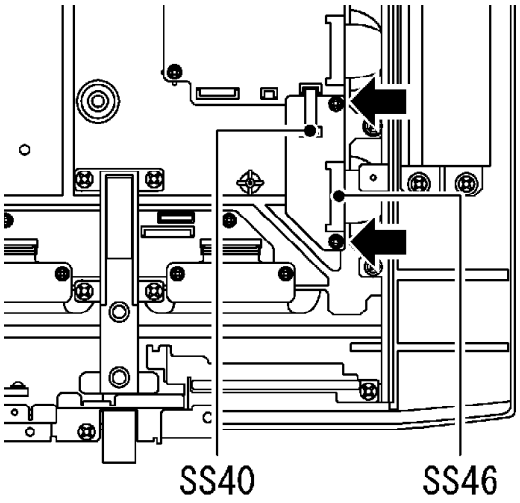
B. Remove the SS2 module fastening screws (×2), and remove the SS2 module.



11. Remove the SS3 module.

A. Remove the coupler (SS40) and flexible cable (SS46) connected to the SS3 module.

B. Remove the SS3 module fastening screws (×2), and remove the SS3 module.

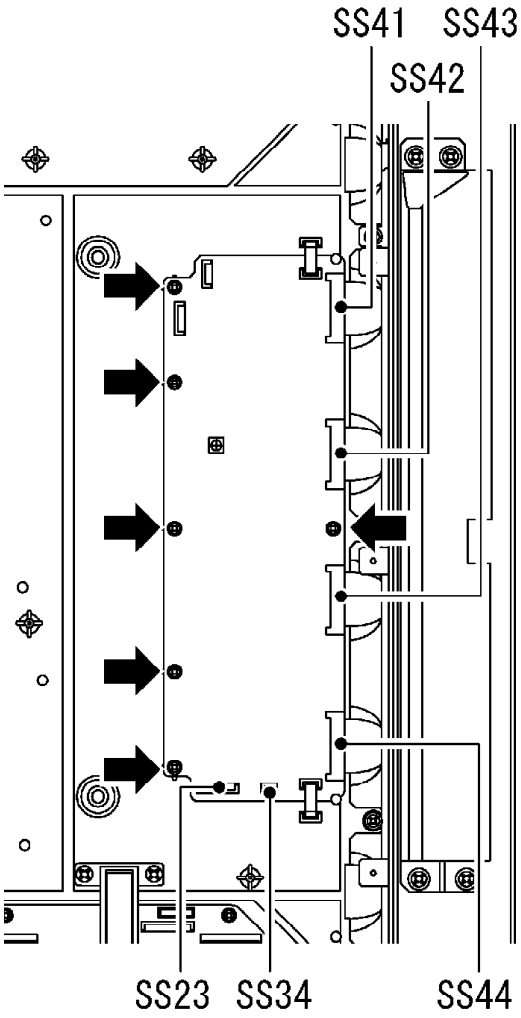


12. Remove the SS module.

A. Remove the couplers (SS23, SS34) connected to the SS module, and remove the flexible cables (SS40, SS47) connected to the SS3 module and SS2 module.

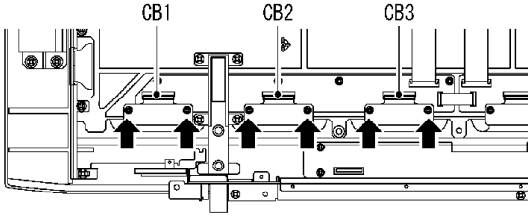
B. Remove the flexible cables (SS41, SS42, SS43, SS44) connected to the SS module.

C. Remove the SS module fastening screws (×6), and remove the SS modules.



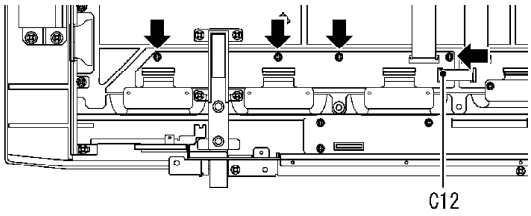
13. Remove the C1 module.

A. Remove the flexible cable holder fastening screws (×6) connected to the C1 module, and remove flexible cables (CB1, CB2, CB3).



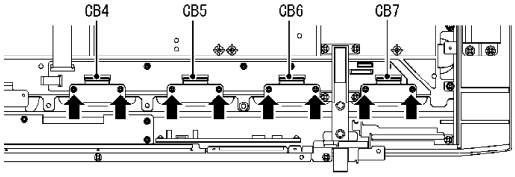
B. Remove the flexible cable (C12) connected to the C1 module.

C. Remove the C1 module fastening screws (×4), and remove the C1 module.



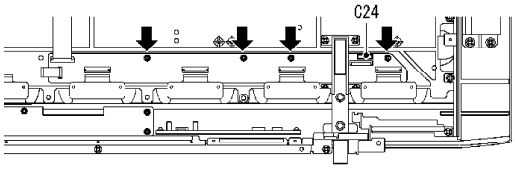
14. Remove the C2 module.

A. Remove the flexible cable holder fastening screws (×8) connected to the C2 module, and remove the flexible cables (CB4, CB5, CB6, CB7).



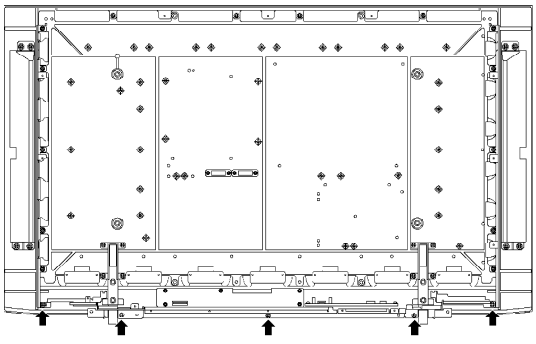
B. Remove coupler (CC24) connected to the C2 module.

C. Remove C2 module fastening screws (×4), and remove the C2 module.



15. Remove the shield plate (bottom).

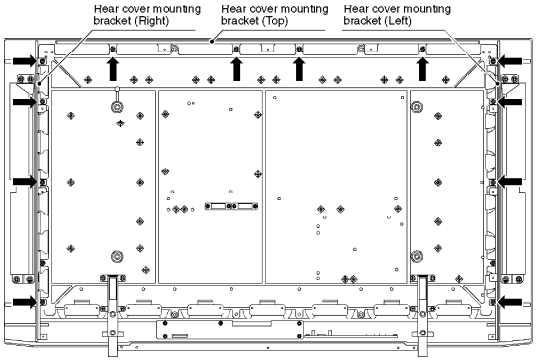
A. Remove the shield plate (bottom) fastening screws (×7), and remove the shield plate (bottom).



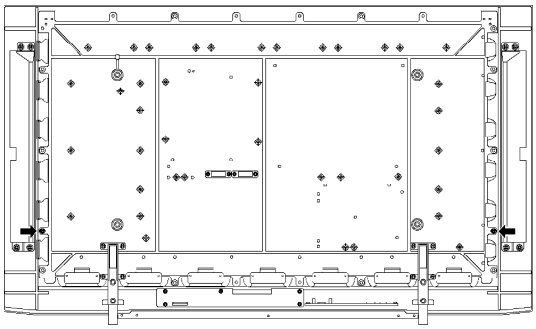
16. Remove the rear cover mounting brackets.

A. Remove the rear cover mounting bracket (top) fastening screws (×4), and remove the rear cover mounting bracket (top).

B. Remove the rear cover mounting bracket (left, right) fastening screws (×4 each), and remove the rear cover mounting brackets (left and right).

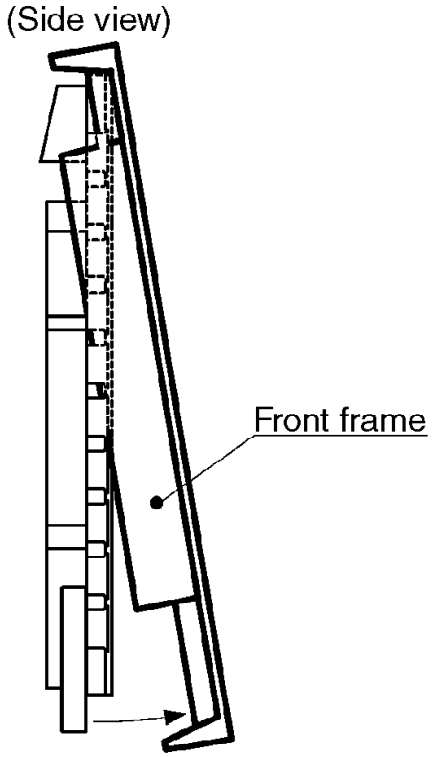


C. Remove the fastening screws (×2) holding the front frame and plasma panel.



17. Remove the front frame.

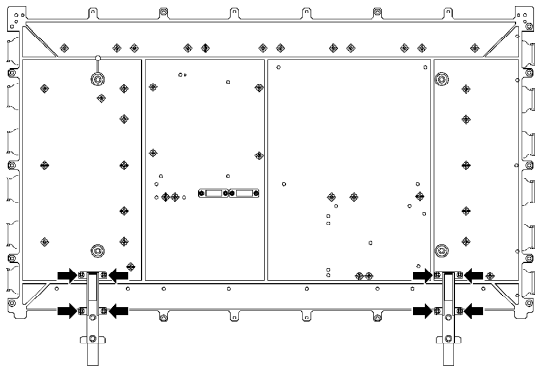
A. Leaving the front glass and front board unit attached to the front frame, pull the bottom of the front frame forward, lift, and remove.



18. Remove stand brackets.

A. Remove the plasma panel section from the servicing stand and lay on a surface such as a table (covered), with the plasma panel surface facing downward.
Spread a soft cloth or similar on the table for protection, so the panel surface is not scratched.

B. Remove the stand bracket (left, right) fastening screws (×4 each) and remove the stand brackets (left, right).



19. Prepare the new panel (finished).

A. Obtain a new plasma panel (finished) to replace the old plasma panel (finished).

B. Place the new plasma panel (finished) on a surface such as a

table (covered), with the plasma panel surface facing downward.

20. Install the new plasma panel (finished).

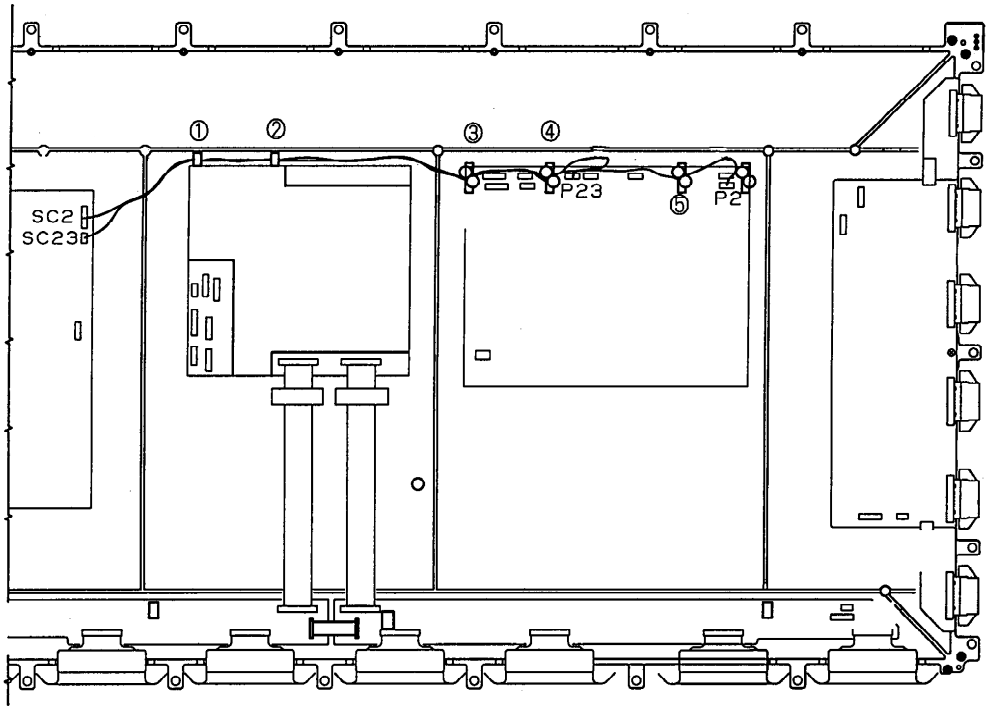
A. Fit the stand brackets (left, right) to the new plasma panel.

B. Place the plasma panel section on the servicing stand.

* When fitting the front frame, be careful not to allow any debris, dust or handling residues to remain between the front glass and plasma panel.

7. Location of Lead Wiring

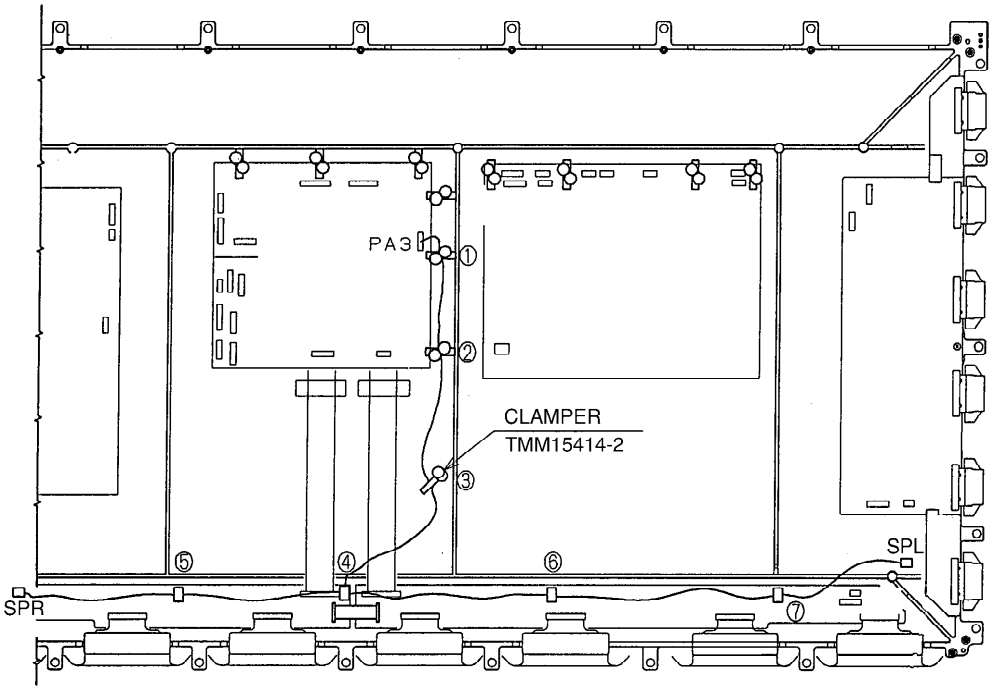
7.1. Lead of Wiring (1)



CON:NO. — CON:NO.	①	②	③	④	⑤	⑥
SC2 — P2	○	○	○	○	○	
SC23 — P23	○	○	○	○		
—						

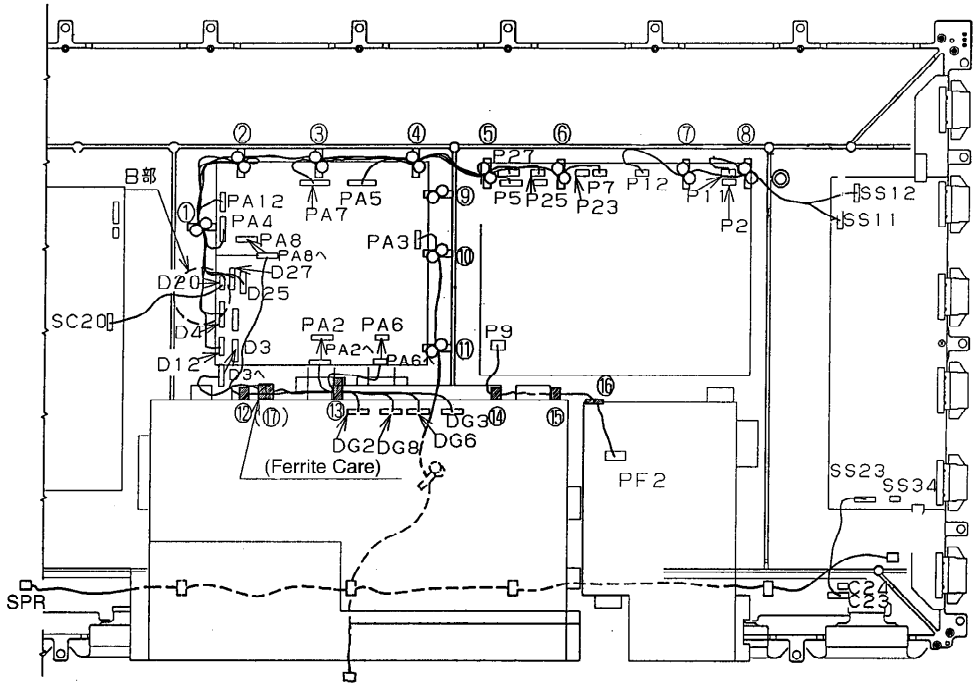
Connector Connection
P2,P23

7.2. Lead of wiring (2)



CON:NO.	CON:NO.	①	②	③	④	⑤	⑥	⑦		
PA3	SPR	○	○	○	○	○				
PA3	SPL	○	○	○	○		○	○		

7.3. Lead of wiring (3)

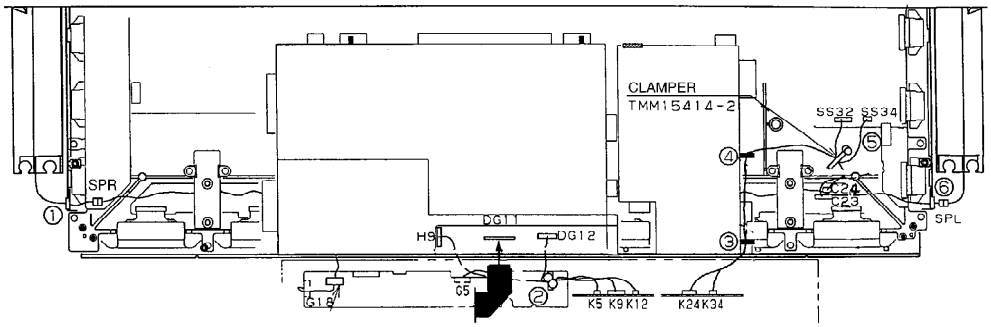


CON:NO. — CON:NO.	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰
SC20 — D20																	
D12 — PA12	○																
D4 — PA4	●	●															
D25 — P25	○	○	○	○	○												
D27 — P27	○	○	○	○	○												
PA5 — P5				○	○												
SS11 — P11								○									
SS12 — P12							○	○									
PA7 — P7			○	○	○	○											
PF2 — P9													○	○		○	○
DG8 — PA8												○	○				
SS23 — C23																	
DG2 — PA2													○				
DG6 — PA6													○				
DG3 — D3													○				○

Connector Connection
P2,P5,P11,P12,P23,P25
P27,P7,D20,D12,D4
D25,D27,D3
PA8,PA2,PA6,PA7,C23

● Wind up second time

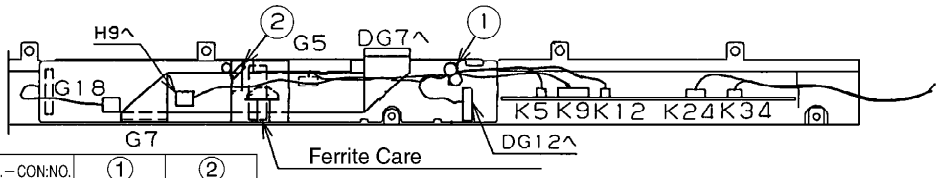
7.4. Lead of wiring (4)



SS34,C24,SP(L,R)
DG12,DG11,G18,H9

CON:NO. — CON:NO.	①	②	③	④	⑤	⑥	◯	◯
H9 — [K9]		◯						
K12 — [DG12]		◯						
K24 — [C24]			◯	◯	◯			
K34 — [SS34]			◯	◯	◯			
SS23 — [C23]					◯			
PA3 — [SPR]	◯							
PA3 — [SPL]					◯	◯		
G5 K5		◯						

7.5. Lead of wiring (5)



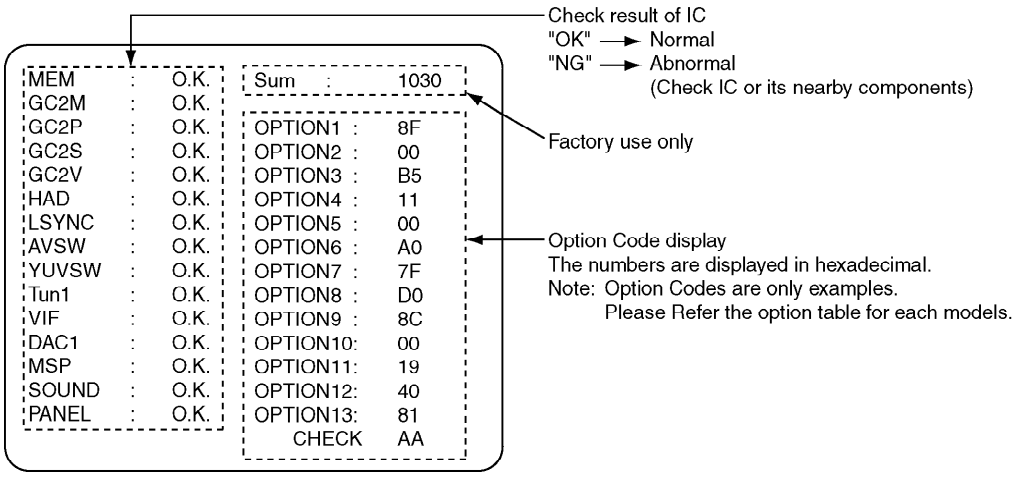
CON:NO. – CON:NO.	①	②
K5 – G5	◯	
K12 – DG12	◯	
G7 – DG7		
K9 – H9	◯	◯

Connector Connection
K5,K24,K34,K9
G7,G18

8. Self Check

1. Self-Check is used to automatically check the bus lines and hexadecimal code of the TV set.

2. To get into the Self -Check mode press the Down (— / V) button on the customer controls at the front of the set, at the same time pressing the Recall button on the remote control, andthe screen will show :



If the CCU ports have been checked and found to be incorrect or not located then "--" will appear in place of "O.K.".

Display	Ref.No	Description	P.C.B.
MEM	IC1008	EEPROM	DG-BOARD
GC2M	IC1301	GROBAL CORE MAIN	DG-BOARD
GC2P	IC1304	GROBAL CORE SUB	DG-BOARD
GC2S	IC1302	GROBAL CORE 3D Comb	DG-BOARD
GC2V	IC1350	GROBAL CORE V Scalar	DG-BOARD
HAD	IC1851	HD-AD CONVERTER	DG-BOARD
LSYNC	IC2652	SYNC PROCESSOR	H-BOARD
AVSW	IC3200	AV switch	H-BOARD
YUVSW	IC1270	YUV switch	DG-BOARD
Tun1	TNR001	TUNER 1	TU-BOARD
VIF	—	—	—
DAC1	IC3003	Ext. DAC	DG-BOARD
MSP	IC2002	Multi Sound Processor	H-BOARD
SOUND	IC2401	AUDIO AMP	PA-BOARD
PANEL	—	PANEL	—

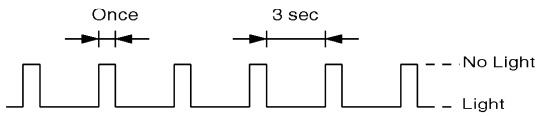
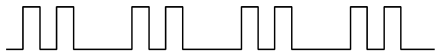
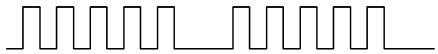
8.1. Power LED Blinking timing chart

1. Subject

Information of LED Flashing timing chart.

2. Contents

When an abnormality has occurred the unit, the protection circuit operates and reset to the stand by mode. At this time, the defective block can be identified by the number of blinkes of the Power LED on the front panel of the unit.

Blinking times	Blinking timing	Contents & Check point
1		Main Micom Power
2		SCAN Driver1
3		3.3V SOS
4		5V SOS
5		Power SOS
7		SCAN Driver2
9		SUS Driver
12		PA board Base Voltage (15, 12, 9, 5, 2.5V)

3. Remarks

Above Fan function is operated during the fans are installed.

8.2. No Power

[First check point]

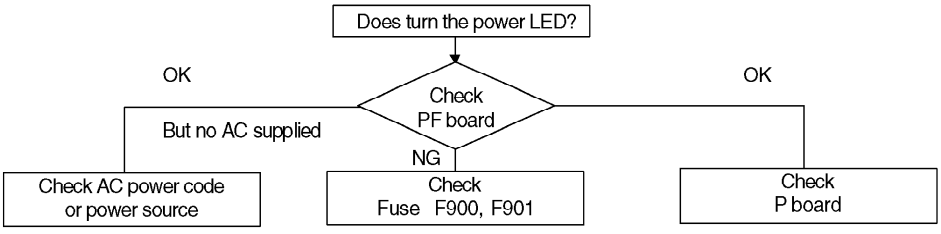
There are following 3 states of No Power indication by power LED.

1. No lit

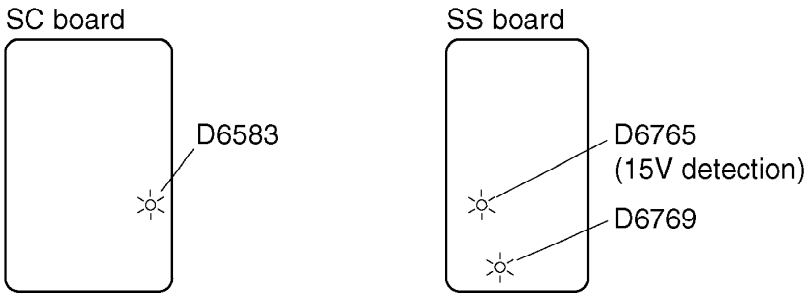
2. Green is lit then turns red blinking a few seconds later.

3. Only red is lit.

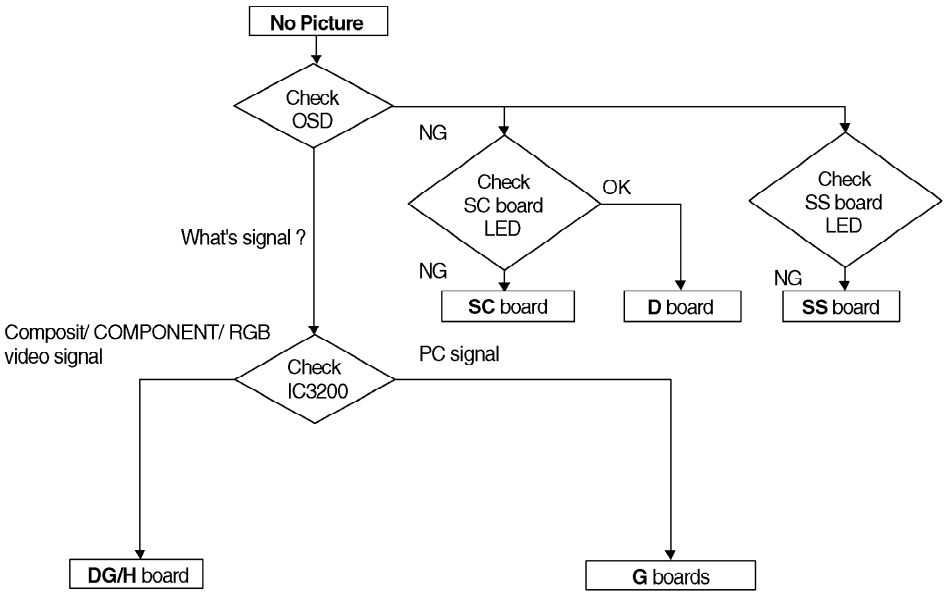
1. No lit



Drive circuits LED indicator



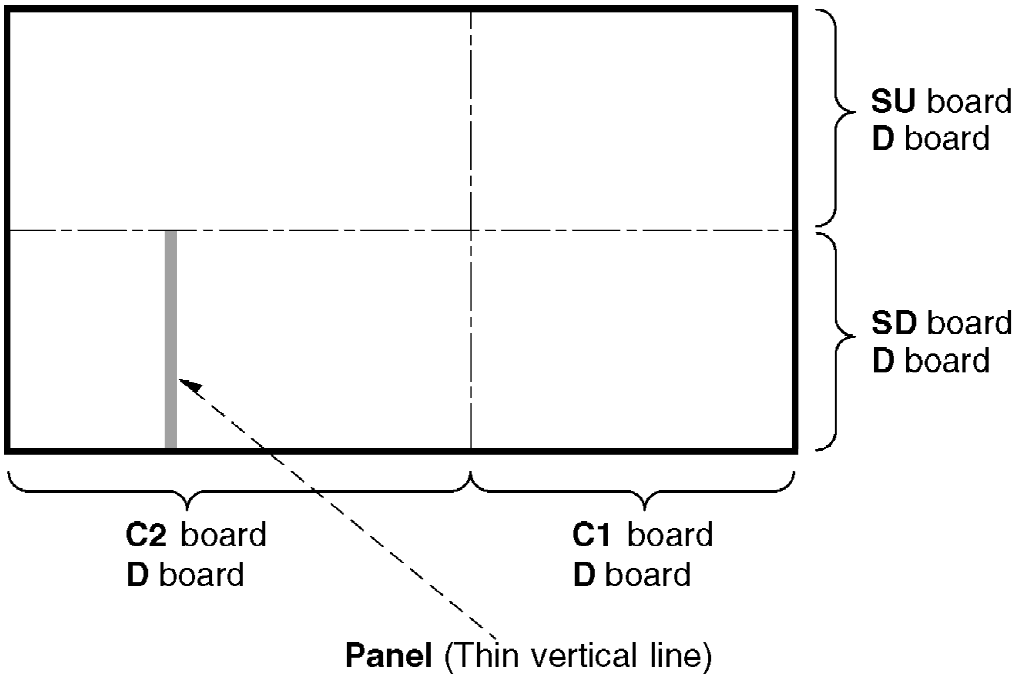
8.3. No Picture



8.4. Local screen failure

Plasma display may have local area failure on the screen. Fig - 1 is the possible defect P.C.B. for each local area.

Fig - 1



<Local screen failure chart>

9. Service Mode Function

MPU controls the functions switching for each IICs through IIC bus in this chassis. The following setting and adjustment can be adjusted by remote control in Service Mode.

9.1. How to enter SERVICE 1

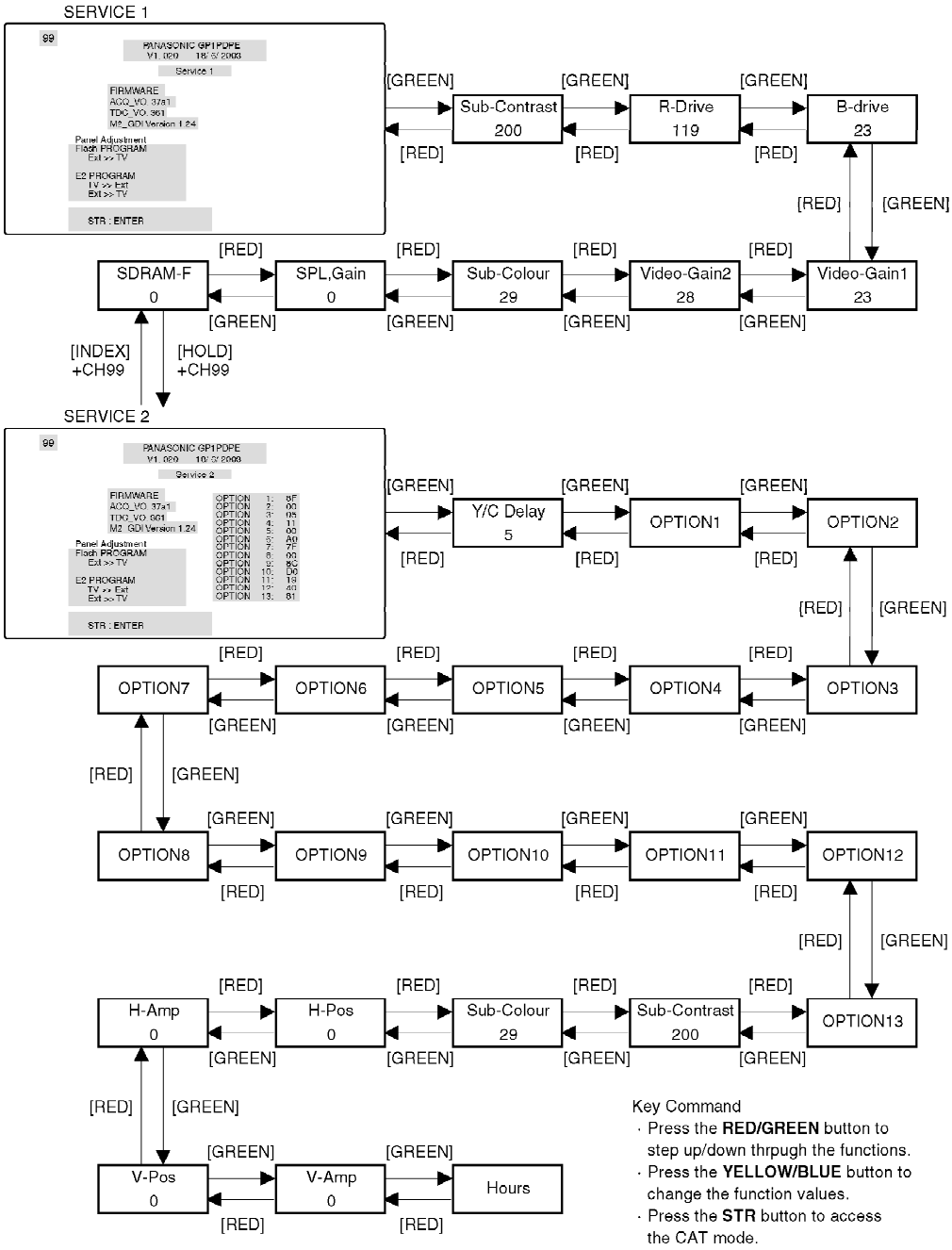
1. **In sound menu, set BASS to MAX/MUM, and set TREBLE to MINIMUM.**
2. **Simultaneously press INDEX button on remote control and DOWN button [— / V] on the TV set.**

9.2. How to enter SERVICE 2

1. **Set the channel to CH99.**
2. **Press HOLD button on remote control.**

Note:

To exit to Service mode, press N or Power button on remote control.



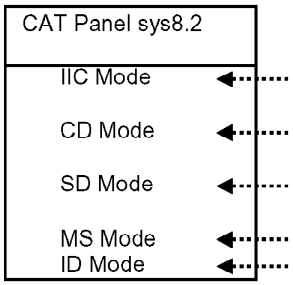
9.3. Option Description

		TH-42 PA20E	TH-42 PA20B		
option1		8F	81		
	b0	1	1	Colour system	Auto(1)
	b1	1	0		SECAM(1)
	b2	1	0		NTSC(1)
	b3	1	0		M.NTSC(1)
	b4	0	0	TV NTSC 50	Reserved
	b5	0	0	TV SECAM 60	Reserved
	b6	0	0	AV NTSC 50	Reserved
	b7	1	1	AV SECAM 60	Reserved
option2		00	00		
	b0	0	0	(CH Plan)	set to 0
	b1	0	0		set to 0
	b2	0	0		set to 0
	b3	0	0		set to 0
	b4	0	0		set to 0
	b5	0	0		set to 0
	b6	0	0		set to 0
	b7	0	0		set to 0
option3		B5	15		
	b0	1	1	(sub picture)	set to 0
	b1	0	0	(2tuner)	set to 0
	b2	1	1	(VGA)	set to 0
	b3	0	0	(YUV)	set to 0
	b4	1	1	(Wide (16:9))	set to 0
	b5	1	0	HYPER	UHF only (0), UHF/VHF (1)
	b6	0	0	SIF	I only(0), BG only(1)
	b7	1	0		I/BG/DK/L(2), BG/DK(3)
option4		11	10		
	b0	1	0	A2 enable	enable(1)
	b1	0	0		set to 0
	b2	0	0		set to 0
	b3	0	0		set to 0
	b4	1	1	NICAM enable	enable(1)
	b5	0	0		set to 0
	b6	0	0		set to 0
	b7	0	0		set to 0
option5		00	00		
	b0	0	0	(A2 select 6.5MHz)	set to 0
	b1	0	0	(NICAM priority)	set to 0
	b2	0	0		set to 0
	b3	0	0		set to 0
	b4	0	0		set to 0
	b5	0	0		set to 0
	b6	0	0		set to 0
	b7	0	0		set to 0
option6		A0	A0		
	b0	0	0	(VCR/GAME in search)	Set to 0
	b1	0	0	(SASO enable)	set to 0
	b2	0	0	Noise mute	Noise mute enable(0)
	b3	0	0	Monitor out AV1 mute	Monitor out AV1 mute(1)
	b4	0	0	(AV SW 3/2AV out)	set to 0
	b5	1	1	Tuner	MACO tuner (0), ALPS tuner (1)
	b6	0	0	free	
	b7	1	1	free	
option7		7F	04		
	b0	1	0	Power up EC-Mode	Power on EC enable (1)
	b1	1	0	CH Blanking	Blanking enable (1)
	b2	1	1	AV Blanking	Blanking enable (1)
	b3	1	0	Auto WIDE	WSS enable only in aspect Auto (0), WSS always enable (1)
	b4	1	0	Volume correction	TV Volume correction enable (1)
	b5	1	0	AVLink	Q-Link on/off selectable in menu (1)
	b6	1	0	MPX/NICAM display	Display NICAM (0), Display MPX (1)
	b7	0	0	free	

		TH-42 PA20E	TH-42 PA20B		
option8		D0	40		
	b0	0	0	free	
	b1	0	0	(Geomagnetic Sensor)	set to 0
	b2	0	0	(Geomagnetic Polarity)	set to 0
	b3	0	0	RF Attenuation	Enable(1)
	b4	1	0	Fine tuning	Enable(1)
	b5	0	0	Search speed	Slow(1) Fast(0)
	b6	1	1	TEXT FLOF	Reserved
	b7	1	0	TEXT TOP	TOP enable (1)
option9		8C	8C		
	b0	0	0	free	
	b1	0	0	free	
	b2	1	1	free	
	b3	1	1	free	
	b4	0	0	free	
	b5	0	0	(Surround SP polarity)	set to 0
	b6	0	0	Volume curve	Volume curve1(0), curve2(1)
	b7	1	1	free	
option10		00	00		
	b0	0	0	free	
	b1	0	0	(OSD language)	set to 0
	b2	0	0		set to 0
	b3	0	0		set to 0
	b4	0	0	Blue Back	enable(0)
	b5	0	0	free	
	b6	0	0	free	
	b7	0	0	(Protect 5V detect)	set to 1
option11		19	11		
	b0	1	1	Shop mode	enable(1)
	b1	0	0	(DDM/Dynamic display)	set to 0
	b2	0	0	(Sub Headphone)	set to 0
	b3	1	0	Scan mode Blanking	Blanking enable (1)
	b4	1	1	User aspect 14:9	enable(1)
	b5	0	0	(NICAM C4 bit)	set to 0
	b6	0	0	(ID-1)	set to 0
	b7	0	0	(1080i)	set to 0
option12		40	48	**Area Option**	
	b0	0	0	(Asia)	set to 0
	b1	0	0	(Australia)	set to 0
	b2	0	0	Ireland	Ireland(1)
	b3	0	1	UK	UK(1)
	b4	0	0	(MELCOA)	set to 0
	b5	0	0	(28 inch)	set to 0
	b6	1	1	(Large size)	set to 1
	b7	0	0	(PTV)	set to 0
option13		81	05	**Temporary**	
	b0	1	1	(VDU Version)	set to 0
	b1	0	0	(GC Version)	set to 1
	b2	0	1	(UV Swap)	set to 0
	b3	0	0	TEXT	Enable(1)
	b4	0	0	LT2 22inch	22inch(1), 15inch(0)
	b5	0	0	free	
	b6	0	0	(Picture Shift)	set to 1
	b7	1	0	(CIP2)	set to 0

10. CAT (computer Aided Test) mode

CAT mode menu



Mode	Function	Access button
IIC	Service Alignment	STR
CD(Complete Diagnostics)	Software version information EEPROM edit	Mute more than 5 seconds
SD(Status Display)	MTBF parameter	STR
MS Mode	Not use	-----
ID	Not use	-----

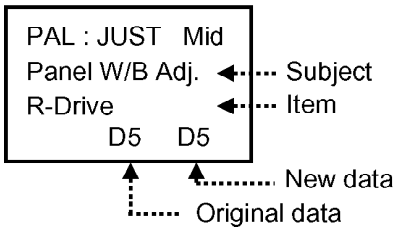
How to access the CAT mode.

1. Enter the service mode.
2. Press the STR button on the remote control.

10.1. IIC mode

Select the IIC mode by Up/Down button on the remote control at the front page of CAT mode then press the STR button on the remote control.

OSD



How to use the IIC mode.

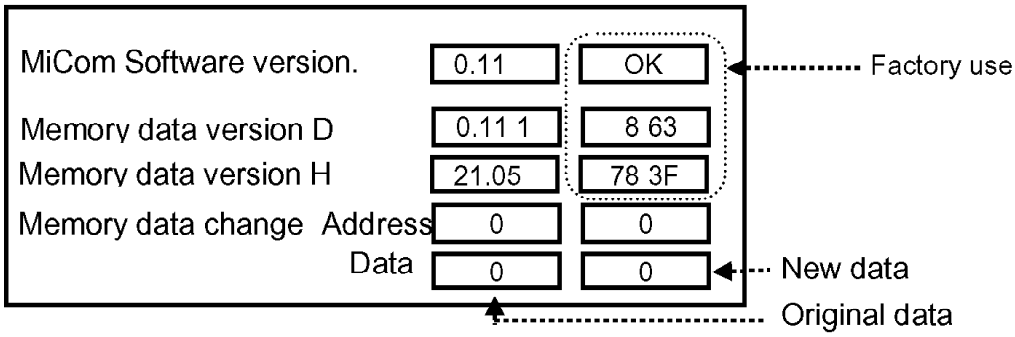
1. Select the alignment **Subject** by **1/2 buttons** on the remote control.
2 .Select the alignment **Item** by **3/4 buttons** on the remote control.
3. Adjust **optimum setting** by **Volume Up/Down buttons** on the remote control.
4. The **data is memorized** when press the **N button** on the remote control or change the alignment Subject (or Items).

Subject and item are mentioned on IIC mode structure.
To exit the IIC mode, press the N button on the remote control.

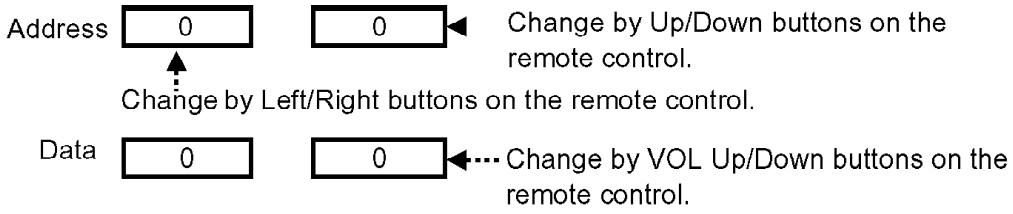
10.2. CD mode

Select the CD mode by Up/Down button on the remote control at the front page of CAT mode then press the Mute button on the remote control more than 5 sec.

OSD



Micom software version (IC9354), this version can be upgrade by replace of new version IC
Memory data change

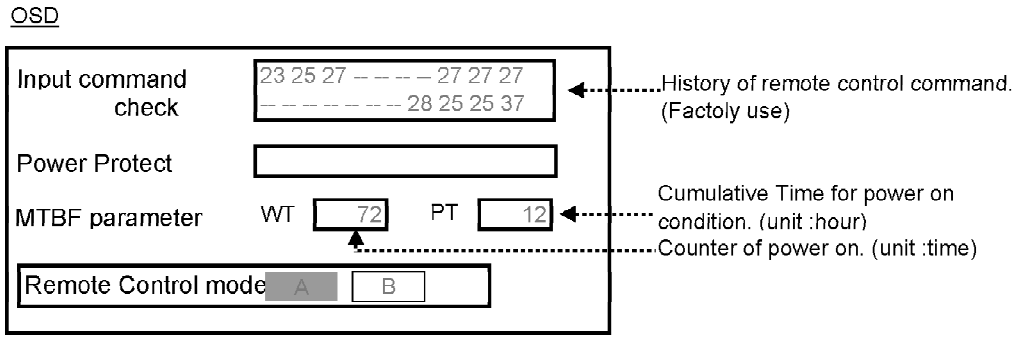


The data is memorized when switch off the main power.

To exit the CD mode, press the R button on the remote control.

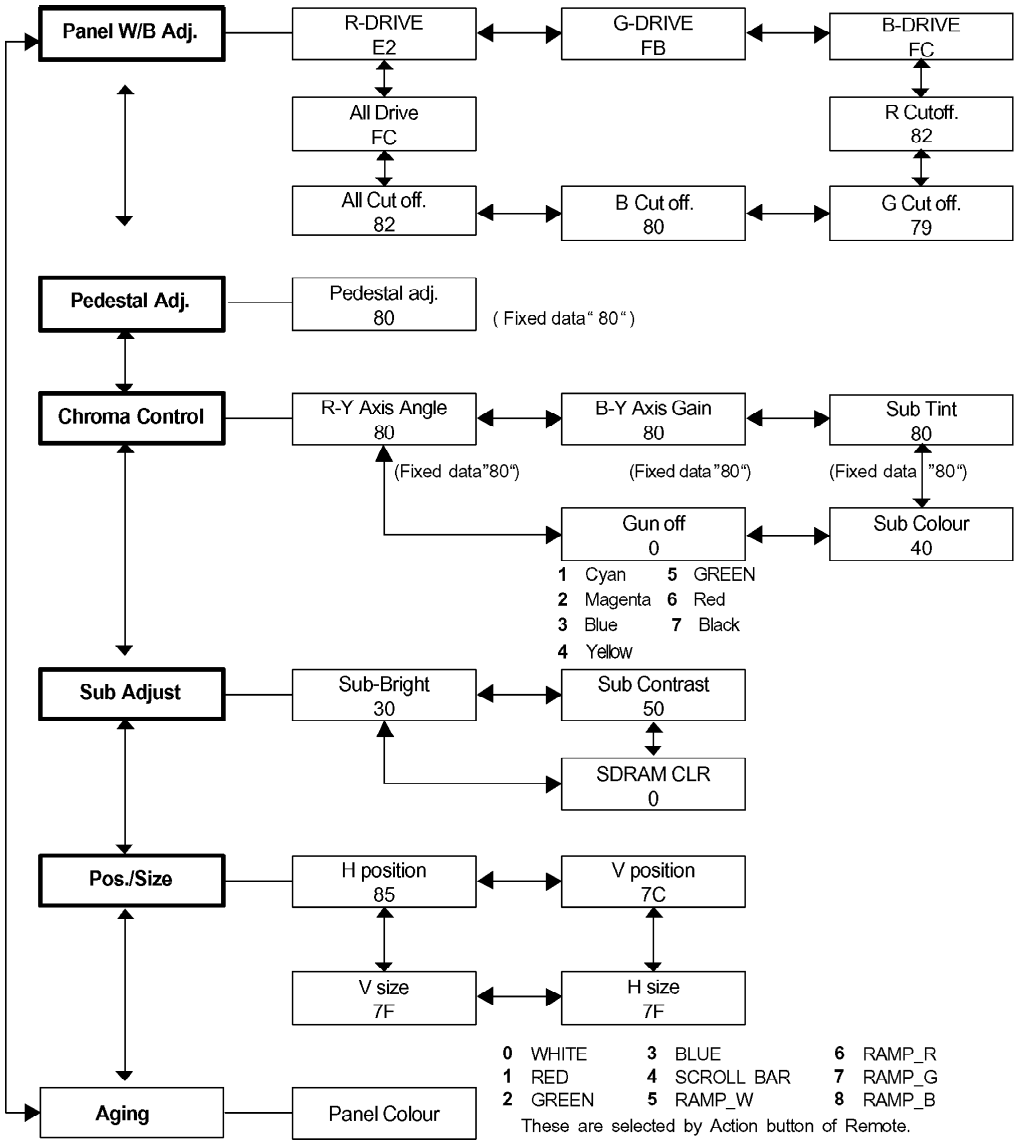
10.3. SD mode

Select the SD mode by Up/Down button on the remote control at the front page of CAT mode then press the STR button on the remote control.



To exit the SD mode, press the N button on the remote control.

10.4. IIC mode structure (following items value is sample data.)



11. Adjustment Procedure

11.1. +B Set-up

11.1.1. Item / Preparation

1. Input a Grey scale signal.

2. Set the picture controls: -
Picture mode: Normal
Colour balance: Normal

11.1.2. Adjustments

Adjust and confirm indicated test point for the specified voltage.

Adjust

Name	Volume	Voltage	Test Point	Remarks
Vsus	R605	170V ± 1V	P11 pin 2	
Vda	R590	67V ± 0.5V	P12 pin 1	

Confirm

Name	Voltage	Test Point	Remarks
15V	15.4V ± 0.5V	P23 pin 1	
15V	15.2V ± 0.5V	P7 pin 1	
12V	11.8V ± 0.5V	P25 pin 1	
Audio+12V	12.5V ± 0.8V	P5 pin 7	
5V	5.1V ± 0.3V	P25 pin 5	
STB 5V	5.0V ± 0.3V	P27 pin 4	
Fan 15V	15.4V ± 0.5V	P10 pin 1	
Fan 5V	5.1V ± 0.3V	P10 pin 4	
PFC	380V ± 15V	C468(+)	

11.2. Driver Set-up

11.2.1. Item / Preparation

1. Input an APL 100 % white signal.

2. Set the picture controls: -
Picture mode: Normal
Colour balance: Cool
Aspect: 16:9

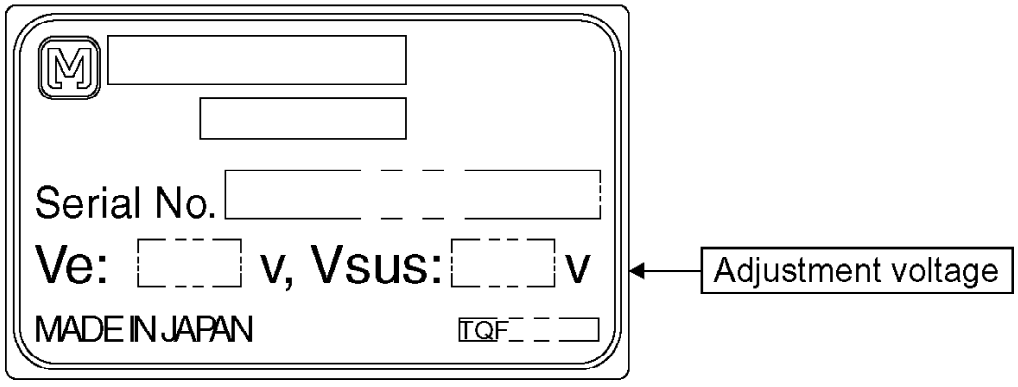
11.2.2. Adjustments

Adjust driver section voltages referring the panel data on the panel data label.

Name	Test Point	Voltage	Volume	Remarks
Vsus	TPVSUS (SS)	170V ± 1V	R605 (P)	
Vbk	TPVBK (SC)	155V ± 5V	R6443 (SC)	
Ve	TPVE (SS)	158V ± 1V	R6774 (SS)	
Vset	TPVSET (SC)	218V ± 6V	---	
Vad	TPVAD (SC)	-90V ± 1V	R6477 (SC)	
Vscn	TPVSCN (SC)	Vad*+118V ± 2V	---	
Vda	TPVDA (SS)	67V ± 1V	R590 (P)	

***See the Panel label.**

Panel Label information



11.3. Initialization Pulse Adjust

1. Input a Cross hatch signal.

2. Set the picture controls: -
Picture mode: Normal
Colour balance: Cool

Adjust the indicated test point for the specified wave form.

	Test point	Volume	Level
T1	TPSC1 (SC)	---	---
T2	TPSS1 (SS)	R6557 (SC)	170 ± 20 μ Sec

11.4. P.C.B. (Printed Circuit Board) exchange

11.4.1. Caution

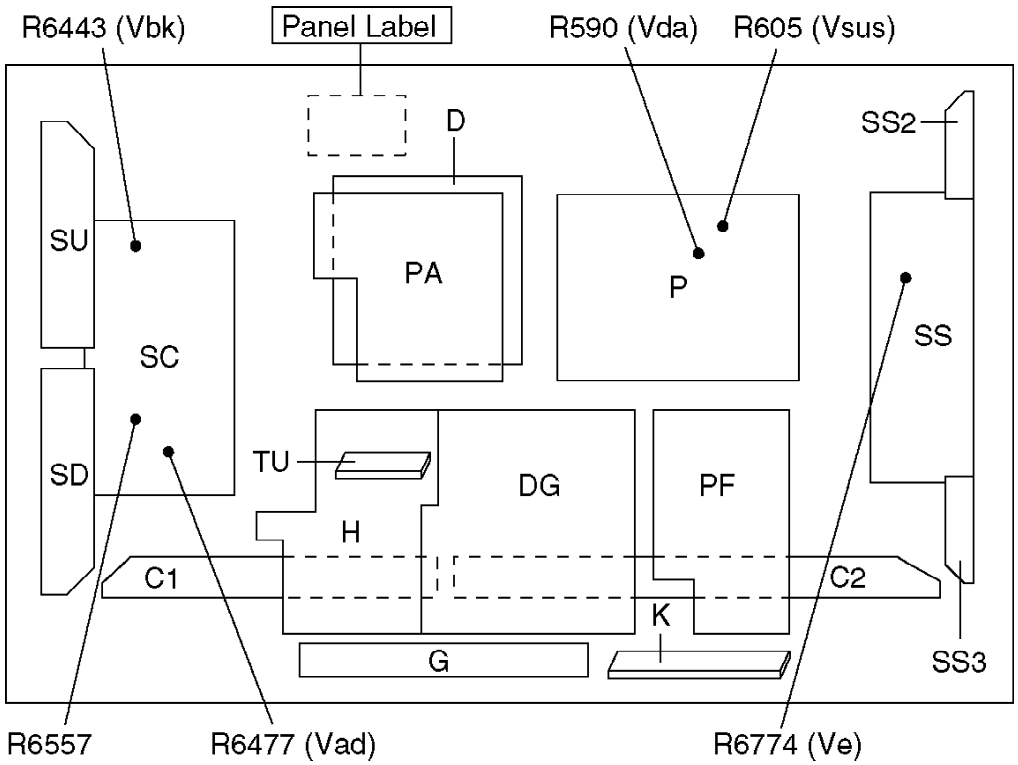
1. To remove P.C.B. , wait 1 minute after power was off for discharge from electrolysis capacitors.

11.4.2. Quick adjustment after P.C.B. exchange

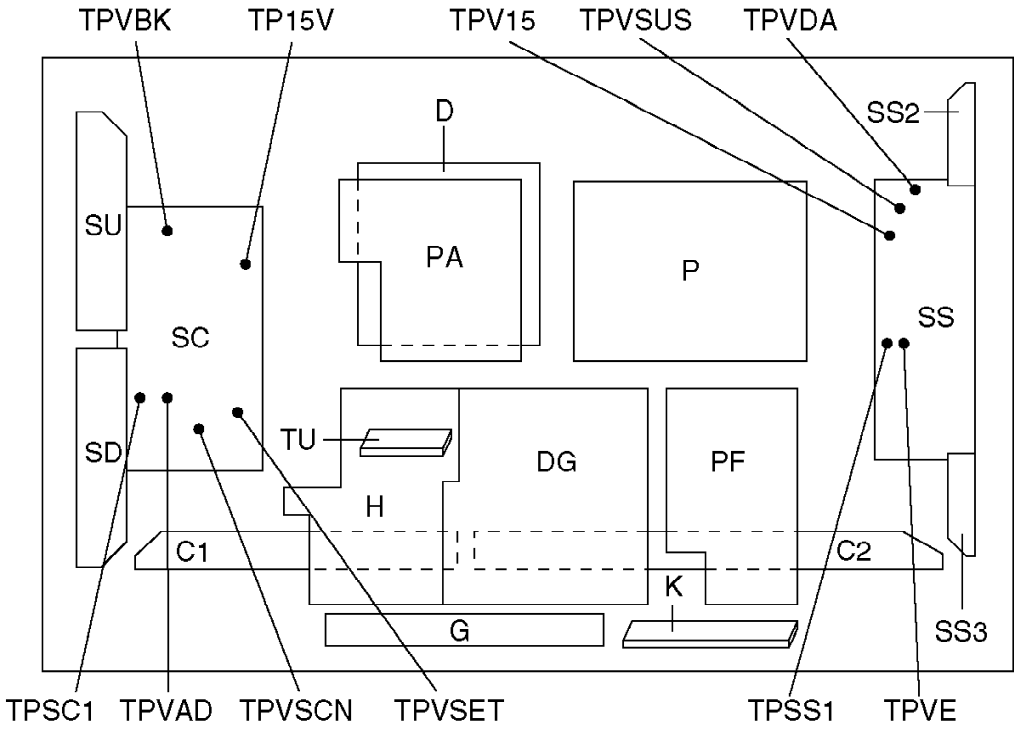
P.C.B.	Name	Test Point	Voltage	Volume	Remarks
P Board	Vsus	TPVSUS (SS)	170V ± 1V	R605 (P)	
	Vda	TPVDA (SS)	67V ± 1V	R590 (P)	
SC Board	Vbk	TPVBK (SC)	155V ± 5V	R6443 (SC)	
	Vad	TPVAD (SC)	-90V ± 1V	R6477 (SC)	
	Vset	TPVSET (SC)	218V ± 6V	- - -	
	Vscn	TPVSCN (SC)	Vad ± 118 ± 2V	- - -	
SS Board	Ve	TPVE (SS)	158V ± 1V	R6774 (SS)	
D, DG Board	White blance, Pedestal and Sub brightness for NTSC, PAL, HD, PC and 625i signa				

***See the Panel label.**

11.5. Adjustment Volume Location



11.6. Test Point Location



12. Alignment

12.1. Pedestal setting

12.2. PAL panel white balance

12.3. PC panel white balance

12.4. Sub brightness setting

12.5. ABL Level

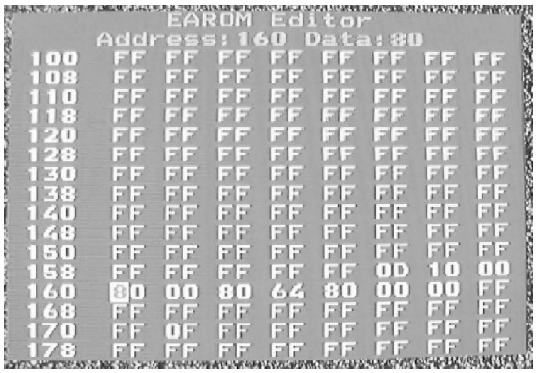
13. Hotel mode

1. Purpose

Restrict a function for hotels.

2. Access command

- Enter to the Service 2 Mode.
- Press RECALL button on remote control and entry to the EAROM EDITOR Mode.
- Set the data of EEPROM(ADDRESS 160) to C0.



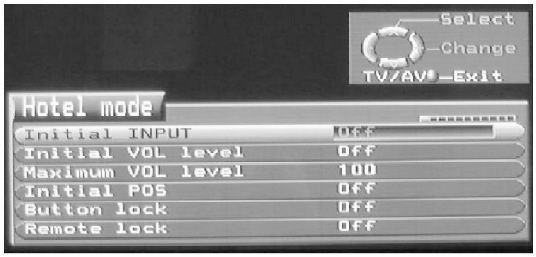
Push the Power switch(button) off/on the set(the remote control) to turn the set off/on.
It can be made Hotel mode.

3. Exit command

- First, set the data of EEPROM(ADDRESS 160) to 80.
Next, Push the Power switch(button) off/on the set(the remote control) to turn the set off/on.
Then, it is no longer hotel mode.

4. Access command to the Hotel mode setup menu

- <Prerequisite> : It is conditions that the data of EEPROM(ADDRESS 160) is C0.
In order to display the Hotel mode setup menu, please enter the following command (within 2 second) .
[[TV]:down + [REMOTE]:TV/AV(3 times)]
Then, the Hotel mode setup menu is displayed.



5. Explain the Hotel mode setup menu

CAUTION

This setup is not valid, unless data of EEPROM(ADDRESS 160) will be C0, even if each settings were done.

item	Function
Initial INPUT	**Select input signal modes.** **Set this signal, each time power is switched on.** **<Selection> :** **Off/TV/AV1/AV2/AV2S/AV3/Av3S/AV4/Av4S/AV4C/PC** **-Off: give priority to a last memory. However, Euro model is compulsorily set to TV.** **-AVnS/AVnC: only Euro model selectable** **-PC: selectable with VGA option**
Initial VOL level	**Adjust output Volume.** **Set this volume, each time power is switched on.** **If the value of InitVol is changed, volume will change. However, priority is given to a last memory when InitVol is Off. When"InitVol" is larger than "MaxVol", make "InitVol" and "MaxVol" the same.** **<Selection/Range> :** **Off/0 to 100** **-Off: give priority to a last memory**
Maximum VOl level	**Adjust maximum volume.** **Set this max. volume, each time power is switched on.** **When "MaxVol" is smaller than "InitVol", make "MaxVol" and "InitVol" the same, if "InitVol" is not Off.** **<Range> :** **0to 100**
Initial POS	**Select program number.** **Set this program number, each time power is switched on.** **<Selection> :** **Off/0 to 99 (Euro model)** **-Off: give priority to a lastmemory**

item	Function
Button lock	Select local key conditions. Set this condition, each time power is switched on. <Selection> : Off/SETUPMENU/All -Off: altogether valid -SETUP: restrict F-key selection (Tuning guide(menu) can not be selected.) -MENU: restrict F-key selection (only Volume/Mute can be selected.) -All: altogether invalid.
Remote lock	Select remote control key conditions. Set this condition, each time power is switched on. <Selection> : Off/SETUP/MENU -Off: altogether valid -SETUP: only Setup menu is invalid -MENU: Picture/Sound/Setup menu are invalid

14. Block and Schematic Diagrams

14.1. Schematic Diagram Notes

14.2. Main Block Diagram

14.3. P and PF-Board Block Diagram

14.4. P and PF-Board (1 of 2) Schematic Diagram

14.5. P and PF-Board (2 of 2) Schematic Diagram

14.6. PA-Board Block Diagram

14.7. PA-Board (1 of 3) Schematic Diagram

14.8. PA-Board (2 of 3) Schematic Diagram

14.9. PA-Board (3 of 3) Schematic Diagram

14.10. H and TU-Board Block Diagram

14.11. H-Board (1 of 2) Schematic Diagram

14.12. H-Board (2 of 2) Schematic Diagram

14.13. TU-Board Schematic Diagram

14.14. DG-Board Block Diagram

14.15. DG-Board (1 of 8) Schematic Diagram

14.16. DG-Board (2 of 8) Schematic Diagram

14.17. DG-Board (3of 8) Schematic Diagram

14.18. DG-Board (4 of 8) Schematic Diagram

14.19. DG-Board (5 of 8) Schematic Diagram

14.20. DG-Board (6 of 8) Schematic Diagram

14.21. DG-Board (7 of 8) Schematic Diagram

14.22. DG-Board (8 of 8) Schematic Diagram

14.23. D-Board Block Diagram

14.24. D-Board (1 of 11) Schematic Diagram

14.25. D-Board (2 of 11) Schematic Diagram

14.26. D-Board (3 of 11) Schematic Diagram

14.27. D-Board (4 of 11) Schematic Diagram

14.28. D-Board (5 of 11) Schematic Diagram

14.29. D-Board (6 of 11) Schematic Diagram

14.30. D-Board (7 of 11) Schematic Diagram

14.31. D-Board (8 of 11) Schematic Diagram

14.32. D-Board (9 of 11) Schematic Diagram

14.33. D-Board (10 of 11) Schematic Diagram

14.34. D-Board (11 of 11) Schematic Diagram

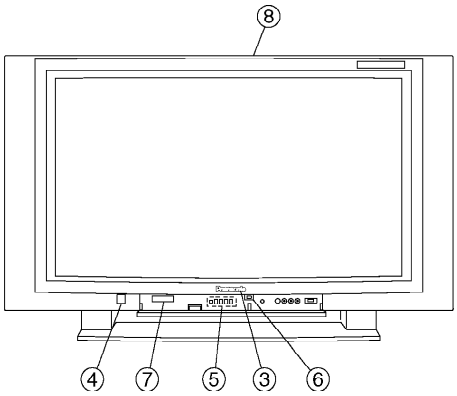
14.35. C1, C2, G and K-Board Block Diagram

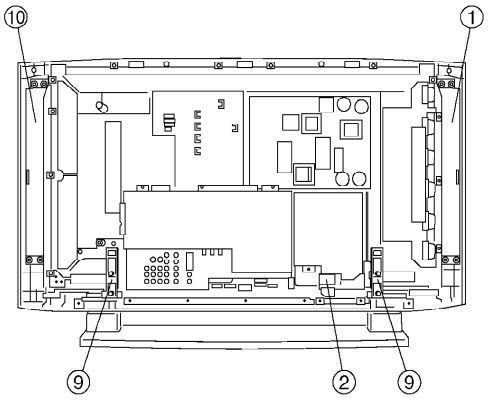
14.36. C1-Board Schematic Diagram

14.37. C2-Board Schematic Diagram

14.38. G and K-Board Schematic Diagram

14.39. SC-Board Block Diagram
14.40. SC-Board (1 of 2) Schematic Diagram
14.41. SC-Board (2 of 2) Schematic Diagram
14.42. SU-Board Block Diagram
14.43. SU-Board Schematic Diagram
14.44. SD-Board Block Diagram
14.45. SD-Board Schematic Diagram
14.46. SS, SS2 and SS3-Board Block Diagram
14.47. SS, SS2 and SS3-Board Schematic Diagram
15. Conductor Views
15.1. PF-Board
15.2. P-Board
15.3. PA-Board
15.4. H and TU-Board
15.5. DG-Board
15.6. D-Board
15.7. C1-Board
15.8. C2-Board
15.9. SC-Board
15.10. SU and SD-Board
15.11. SS, SS2 and SS3-Board
15.12. K and G-Board
16. Parts Location





17. Mechanical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	EAB442BL2	SPEAKER (LEFT)	1	
10	EAB442BR2	SPEAKER (RIGHT)	1	
2	K2AH3H000028	AC INLET	1	⚠
	K2CN3DH00004	AC CORD	1	TH-42PA20E ⚠
	K2CT3DH00017	AC CORD	1	TH-42PA20B ⚠
	MD42S06A1J	PLASMA DISPLAY PANEL	1	⚠
	N2QAJB000081	REMOTE CONTROL	1	
	R6PPTT/2ST	BATTERY	1	
3	TBMA138	PANASONIC BADGE	1	
4	TBXA36303	POWER BUTTON	1	
5	TBXA36403	CONTROL BUTTON	1	
6	TEK6935	DOOR SWITCH	1	
	TEKC011	DAMPER	1	
	TES4G204	SPRING	1	
	THEL023Z	SCREW	28	
	THEL023Z	SCREW	1	
	THEL035N	SCREW	13	
	THEL035N	SCREW	2	
	THEL035N	SCREW	38	
	THEL035N	SCREW	6	
	THNA004N	SCREW	1	K1YGZZ000007
	THTF003Y	SCREW	1	
	THTF003Y	SCREW	2	
	THTF003Y	SCREW	8	
	THTF003Y	SCREW	8	
	THW40973N	WASHER	1	
	THW70035Y	WASHER	1	
	TKGA5120	FRONT GALLAS	1	
7	TKKC5151	LED PANEL	1	
	TKKL5231	COVER	4	
	TKKL5269	COVER	1	
	TKRA06806	HANDLE	2	
	TMM15414-2	CLAMPER	1	
	TMM15414-2	CLAMPER	1	
	TMM17499	CLAMPER	1	
	TMM25401	CLAMPER	3	
	TMM25401	CLAMPER	2	
	TMM7464-2	CLAMPER	1	
	TMME047	CLAMPER	6	
	TMME047	CLAMPER	4	
	TMME047	CLAMPER	1	
	TMME075	EADG SADOLE	1	
	TMME108	CABLE STRAP	2	
	TMME152	CLAMPER	2	
	TMME226	CLAMPER	2	
	TMMJ044	SPEAKER RUBBER	4	
	TMMJ044	SPEAKER RUBBER	4	
	TMWJ034	LED HOLDER	1	
	TMWJ035	IR HOLDER	1	
	TMXX021-1	CORE HOLDER	2	
	TPCB26304	CARTON BOX	1	TH-42PA20E ⚠
	TPCB26305	CARTON BOX	1	TH-42PA20B ⚠

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	TPCB26401	BOTTOM CARTON	1	
	TPD169487	JOINT	4	
	TPDA0641	CUSHION(UPPER)	1	
	TPDA0642-2	CUSHION(BOTTOM)	1	
	TPDF0737	PAPER BOX	1	
	TPDF0878	UPPER PAD	1	
	TPEH170	PROTECT COVER	1	
	TQBC0619-1	INSTRUCTION BOOK(ENGLISH)	1	TH-42PA20E ⚠
	TQBC0620-1	INSTRUCTION BOOK(GERMAN)	1	TH-42PA20E ⚠
	TQBC0621-1	INSTRUCTION BOOK(FRENCH)	1	TH-42PA20E ⚠
	TQBC0622-1	INSTRUCTION BOOK(ITALIAN)	1	TH-42PA20E ⚠
	TQBC0623-1	INSTRUCTION BOOK(SPANISH)	1	TH-42PA20E ⚠
	TQBC0624-1	INSTRUCTION BOOK(DUTCH)	1	TH-42PA20E ⚠
	TQBC0625-1	INSTRUCTION BOOK(DANISH)	1	TH-42PA20E ⚠
	TQBC0626-1	INSTRUCTION BOOK(SWEDISH)	1	TH-42PA20E ⚠
	TQBC0627-2	INSTRUCTION BOOK(ENGLISH)	1	TH-42PA20B ⚠
	TSXL139	CABLE	6	
	TSXL222	CABLE (C-C)	1	
	TSXL231	CABLE	6	
	TSXL278	CABLE (FPC)(D-C1/2)	2	
	TSXL324	CABLE(DG7-G7)	1	
8	TTEA0135	ESCUTCHEON	1	⚠
	TTPA0321	BOTTOM DOOR	1	
	TTUA0703	REAR COVER	1	⚠
9	TXFMZ010QCS	STAND POOL BRACKET	2	
	TXJPA30QCS	SPEKER REED (LEFT/RIGHT)	1	
	XTB4+10A	SCREW	25	
	XTB4+10A	SCREW	2	
	XTB4+15AFZ	SCREW	8	
	XTB4+20A	SCREW	7	
	XTV3+10JFZ	SCREW	5	
	XTW4+Z15D	SCREW	8	
	XYC4+FJ35FZ	SCREW	12	
	XYN3+C8	SCREW	2	
	XYN3+F10	SCREW	1	
	XYN3+F10	SCREW	1	
	XYN3+F10	SCREW	1	
	XYN3+F10	SCREW	2	
	XYN3+F10	SCREW	1	
	XYN3+F10	SCREW	1	
	XYN3+F10	SCREW	1	
	XYN3+F10	SCREW	1	
	XYN3+F10	SCREW	1	
	XYN3+F10	SCREW	1	
	XYN3+F10	SCREW	1	
	XYN3+F10FZ	SCREW	2	
	XYN3+F8	SCREW	17	
	XYN3+F8	SCREW	6	
	XYN3+F8	SCREW	5	
	XYN3+F8	SCREW	2	
	XYN3+F8	SCREW	2	
	XYN3+J10	SCREW	2	
	XYN3+J10	SCREW	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	XYN3+J8	SCREW	1	
	XYN3+J8	SCREW	1	
	XYN3+J8	SCREW	1	
	XYN3+J8	SCREW	1	
	XYN3+J8	SCREW	1	
	XYN4+E8	SCREW	1	
	XYN5+C20	SCREW	8	
	XZBT6506	POLY BAG	1	

18. Replacement Parts List

18.1. Replacement Parts List Notes

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item.
After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention.
After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

Type Allowance

2. Capacitor

Example:

ECKF1H103ZF C 0.01UF, Z, 50V

Type Allowance

Type	Allowance
C : Carbon F : Fuse M : Metal Oxide Metal FIlm S : Solid W : Wire Wound	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20%

Type	Allowance
C : Ceramic E : Electrolytic P : Polyester Polyprop lene T : Tantalum	C : ±0.25pF D : ±0.5pF F : ±1pF G : ±3pF J : ±5pF K : ±10pF L : ±15pF M : ±20pF P : +100%, -0% Z : +80%, -20%

18.2. Electrical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
F900.901	K5Y802B00001	FUSE	2	⚠
C11	K1MN50B00026	50P CONNECTOR	1	
C12	K1MN20B00043	CONNECTOR	1	
C21	K1MN50B00026	50P CONNECTOR	1	
C22	K1MN20B00043	CONNECTOR	1	
C23	K1KA11A00102	11P CONNECTOR	1	
C24	K1KA08A00232	8P CONNECTOR	1	
C300	ECA1HHG470	E 47UF, 50V	1	
C301	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C305	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C403-05	ECKDAE472ZE	C 4700PF, Z,	3	⚠
C406	ECA2WHG100	E 10UF, 450V	1	
C407	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C408	ECKD3D392KBP	C 3900PF, K, 2KV	1	
C409	ECA1EHG470	E 47UF, 25V	1	
C411	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C412	ECA1HHG100	E 10UF, 50V	1	
C414	ECKD2H561KB2	C 560PF, K,500V	1	
C415	ECJ3VC1H472J	C 4700PF, J, 50V	1	
C416	EEUFC1C471	E 470UF, 16V	1	
C417	ECA1EHG470	E 47UF, 25V	1	
C418	ECA1CHG101	E 100UF, 16V	1	
C419	ECA1AHG471	E 4700UF, 10V	1	
C420	ECA1EHG101	E 100UF, 25V	1	
C421,22	ECKF1H223ZF	C 0.022UF, Z, 50V	2	
C423	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C451-53	ECKDAE472ZE	C 4700PF, Z,	3	⚠
C455	ECQE6105JF	P 1UF, J,630V	1	
C456	EEUFC1V331	E 220UF, 35V	1	
C457	ECQB1H103JF	P 0.01UF, J, 50V	1	
C458	ECJ2VC1H821J	C 820PF, J, 50V	1	
C459	EEUFC1H330	E 33UF, 50V	1	
C460	ECJ2XC1H101J	C 100PF, J, 50V	1	
C461	ECJ2XC1H331J	C 330PF, J, 50V	1	
C462	ECQB1H104JF	P 0.1UF, J, 50V	1	
C463	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C464	ECQB1H104JF	P 0.1UF, J, 50V	1	
C465	ECA1HHG010	E 1UF, 50V	1	
C466	ECKD3D101KBP	C 100PF, K, 2KV	1	
C468,69	EETHC2W331L	E 330UF, 450V	2	
C470	ECA1EHG331	E 330UF, 25V	1	
C471	ECQB1H104JF	P 0.1UF, J, 50V	1	
C548	EEUEB1E101	E 100UF, 25V	1	
C549	EEUEB1H101	E 100UF, 50V	1	
C550	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C551,52	ECJ2XC1H471J	C 470PF, J, 50V	2	
C553	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C554	ECJ2XC1H221J	C 220PF, J, 50V	1	
C555	EEUEB1E101	E 100UF, 25V	1	
C556	EEUEB1H220	E 22UF, 50V	1	
C557	ECQE6473KF	P 0.047UF, K,630V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C558	ECKD3D101KBP	C 100PF, K, 2KV	1	
C559	ECQE6473KF	P 0.047UF, K,630V	1	
C560	ECKD3D221KBP	C 220PF, K, 2KV	1	
C561,62	ECJ3VC1H472J	C 4700PF, J, 50V	2	
C563	ECKDNA102KB	C 1000PF, Z,	1	⚠
C564	ECKD3A101KBP	C 100PF, K, 1KV	1	
C565	EETHC2C821B	E 820UF, 160V	1	
C566	ECKD3D102KBP	C 1000PF, K, 2KV	1	
C567,68	ECJ3VC1H472J	C 4700PF, J, 50V	2	
C569	ECKD3A101KBP	C 100PF, K, 1KV	1	
C570	ECKD3A471KBP	C 470PF, K, 1KV	1	
C571	ECKD3A101KBP	C 100PF, K, 1KV	1	
C572	EEUFC1E222	E 2200UF, 25V	1	
C573,74	EETHC2D182L	E 1800UF, 200V	2	
C575	EEUEB1H220	E 22UF, 50V	1	
C576	EEUFC1E222	E 2200UF, 25V	1	
C577	ECA1EHG222	E 2200UF, 25V	1	
C578	ECQB1H332JF	P 3300PF, J, 50V	1	
C579	ECA1EHG221	E 220UF, 25V	1	
C581	EEUFC0J122	E 1200UF, 6.3V	1	
C583	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C584	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C585	EEUEB1E101	E 100UF, 25V	1	
C586	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C590	EEUFC1E222	E 2200UF, 25V	1	
C591	ECKD3A101KBP	C 100PF, K, 1KV	1	
C650	EEUEB1H101	E 100UF, 50V	1	
C901	ECQU2A105BN9	P 1UF, 250V	1	⚠
C902	ECQU2A224BN9	P 0.22UF, 250V	1	⚠
C903	ECQU2A105BN9	P 1UF, 250V	1	⚠
C910,11	ECKCNA221KB7	C 220PF, M,	2	⚠
C915	ECQU2A224BN9	P 0.22UF, 250V	1	⚠
C916,17	ECKDNA102KB	C 1000PF, Z,	2	⚠
C2305,06	ECA1VHG470	E 47UF, 35V	2	
C2307,08	ECA1HHG4R7	E 4.7UF, 50V	2	
C2309,10	ECJ3VF1C225Z	C 2.2UF, Z, 16V	2	
C2311,12	ECJ2XB1H682K	C 6800PF, K, 50V	2	
C2313,14	ECA1HHG2R2	E 2.2UF, 50V	2	
C2321,22	ECQV1H225JM	P 2.2UF, J, 50V	2	
C2323,24	ECJ2XC1H102J	C 1000PF, J, 50V	2	
C2325,26	ECA1EHG471	E 470UF, 25V	2	
C2327-30	ECQV1H104JM	P 0.1UF, J, 50V	4	
C2333,34	ECA1EHG471	E 470UF, 25V	2	
C2339	ECA1HHG100	E 10UF, 50V	1	
C2342	ECA1HHG100	E 10UF, 50V	1	
C2352	ECA1CHG101	E 100UF, 16V	1	
C2381	ECA1HHG100	E 10UF, 50V	1	
C2382	ECA1CHG101	E 100UF, 16V	1	
C2401	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C2413	ECA1HHG470	E 47UF, 50V	1	
C2414	EEVHB1C470	E 47UF, 16V	1	
C2417	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C2419	EEVHB1C100	E 10UF, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2422	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C2423	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2426	ECJ2XB1H153K	C 0.015UF, K, 50V	1	
C2427	EEVHB1C100	E 10UF, 16V	1	
C2429	ECA1CHG101	E 100UF, 16V	1	
C2431	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C2433	ECJ2XB1H393K	C 0.039UF, K, 50V	1	
C2434	ECJ2XB1H223K	C 0.022UF, K, 50V	1	
C2435	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2436	ECJ3XB1C105K	C 1UF, K, 16V	1	
C2437,38	ECA1CHG101	E 100UF, 16V	2	
C2440,41	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	
C2442	ECJ2VB1C224K	C 0.22UF, K, 16V	1	
C2450	EEVHB1C100	E 10UF, 16V	1	
C2451	EEVHB1E4R7	E 4.7UF, 25V	1	
C2452	ECJ2XB1H562K	C 5600PF, K, 50V	1	
C2453	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2454	EEVHB1E4R7	E 4.7UF, 25V	1	
C2457	EEVHB1E4R7	E 4.7UF, 25V	1	
C2458	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C2459	ECJ3XB1C105K	C 1UF, K, 16V	1	
C2460	ECJ2XB1H473K	C 0.047UF, K, 50V	1	
C2461	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C2463	ECJ2XB1H473K	C 0.047UF, K, 50V	1	
C2466,67	ECJ3XB1C105K	C 1UF, K, 16V	2	
C2480	ECJ2VB1C224K	C 0.22UF, K, 16V	1	
C2484	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C3710	EEVHB1H1R0	E 1UF, 50V	1	
C3711	EEVHB1A101	E 100UF, 10V	1	
C3713,14	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C3718,19	ECJ2XC1H561J	C 560PF, J, 50V	2	
C6401-08	ECJ2VF1C105Z	C 1UF, Z, 16V	8	
C6411	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C6412	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C6417	ECJ2XB1H221K	C 220PF, K, 50V	1	
C6421	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C6422	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C6427	F1L2E1040002	E 1000UF, 25V	1	
C6429	F1L2E1040002	E 1000UF, 25V	1	
C6431	F1L2E1040002	E 1000UF, 25V	1	
C6433	F1L2E1040002	E 1000UF, 25V	1	
C6452	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6453	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6454	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6455	EEUFC1E221	E 220UF, 25V	1	
C6456	ECA2CM101	E 100UF, 160V	1	
C6458	ECJ4XB1E475M	C 4.7UF, M, 25V	1	
C6459	EEUFC1E470	E 47UF, 25V	1	
C6461	ECA1HM101	E 100UF, 50V	1	
C6462-65	ECJ4XB1E475M	C 4.7UF, M, 25V	4	
C6466	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6467	ECJ2XB1H472K	C 4700PF, K, 50V	1	
C6468	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6469	EEUFC1E221	E 220UF, 25V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C6470	ECA1HM221	E 220UF, 50V	1	
C6471	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6472	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6473	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6474	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6475	EEUFC1E221	E 220UF, 25V	1	
C6476	ECA2CM101	E 100UF, 160V	1	
C6478	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6481,82	F1K2J332A014	C 3300UF, K,6.3V	2	
C6485,86	F1K2J332A014	C 3300UF, K,6.3V	2	
C6490,91	ECJ3XK2J102K	C 1000PF, K,630V	2	
C6492	ECA2VHG100	E 10UF, 350V	1	
C6493	ECJ3XB2J222K	C 2200PF, K,630V	1	
C6501-08	ECJ2VF1C105Z	C 1UF, Z, 16V	8	
C6509	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C6511,12	ECJ4XB1E475M	C 4.7UF, M, 25V	2	
C6513	ECA2CM101	E 100UF, 160V	1	
C6521	EEUFC1E470	E 47UF, 25V	1	
C6523	ECA1VM470	E 47UF, 35V	1	
C6524,25	ECJ3FC2D102J	C 1000PF, J,200V	2	
C6526	ECA2EHG220	E 22UF, 250V	1	
C6529	ECJ3XK2J102K	C 1000PF, K,630V	1	
C6531,32	ECJ4XB1E475M	C 4.7UF, M, 25V	2	
C6534	ECJ3XK2J102K	C 1000PF, K,630V	1	
C6541	ECJ4XB1E475M	C 4.7UF, M, 25V	1	
C6543,44	ECJ3FC2D102J	C 1000PF, J,200V	2	
C6546	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6547	ECJ3FC2D102J	C 1000PF, J,200V	1	
C6550	ECA2CM101	E 100UF, 160V	1	
C6571	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6575-78	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C6580,81	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C6584	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6585	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6588	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6589	ECJ4XB1E475M	C 4.7UF, M, 25V	1	
C6590	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6591	ECJ4XB1E475M	C 4.7UF, M, 25V	1	
C6598	ECA2CHG220	E 22UF, 160V	1	
C6601-04	ECA2DHG221	E 220UF, 200V	4	
C6607	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6608	ECA1EM471	E 470UF, 25V	1	
C6611	F1K2J332A014	C 3300UF, K,6.3V	1	
C6615-17	F1K2J332A014	C 3300UF, K,6.3V	3	
C6620	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6621-28	ECQE2105RKB	P 1UF, 250V	8	
C6631,32	ECJ4XB1E475M	C 4.7UF, M, 25V	2	
C6633	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6634,35	ECJ4XB1E475M	C 4.7UF, M, 25V	2	
C6636	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6637	EEUFC1E121	E 120UF, 25V	1	
C6639	F2A2D1510004	E 150UF, 200V	1	
C6642	F1L2E1040002	E 1000UF, 25V	1	
C6644	ECJ4XB1E475M	C 4.7UF, M, 25V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C6645	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6646	F2A1V121A085	E 120UF, 35V	1	
C6647	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6650	ECQE2224KF	P 0.22UF, K,250V	1	
C6651,52	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C6655,56	EEUFC1A101	E 100UF, 10V	2	
C6660,61	ECJ3XK2J102K	C 1000PF, K,630V	2	
C6695,96	ECJ3XK2J102K	C 1000PF, K,630V	2	
C6701-04	F2A2D1510004	E 150UF, 200V	4	
C6707,08	EEUED2C470	E 47UF, 160V	2	
C6709	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6712-14	F1K2J332A014	C 3300UF, K,6.3V	3	
C6717	F1K2J332A014	C 3300UF, K,6.3V	1	
C6721-28	ECQE2105RKB	P 1UF, 250V	8	
C6731,32	ECJ4XB1E475M	C 4.7UF, M, 25V	2	
C6733	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6734,35	ECJ4XB1E475M	C 4.7UF, M, 25V	2	
C6736	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6737	ECQE2224KF	P 0.22UF, K,250V	1	
C6739	F1L2E1040002	E 1000UF, 25V	1	
C6740	ECJ3XB2J222K	C 2200PF, K,630V	1	
C6741,42	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C6744	ECJ4XB1E475M	C 4.7UF, M, 25V	1	
C6746	ECJ4XB1E475M	C 4.7UF, M, 25V	1	
C6747	F2A2D1510004	E 150UF, 200V	1	
C6748	EEUFC1E221	E 220UF, 25V	1	
C6749	ECJ4XB1E475M	C 4.7UF, M, 25V	1	
C6750,51	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C6753,54	EEUFC1E221	E 220UF, 25V	2	
C6755	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6756	EEUFC1A101	E 100UF, 10V	1	
C6757	ECJ4XB1E475M	C 4.7UF, M, 25V	1	
C6760,61	ECJ3XK2J102K	C 1000PF, K,630V	2	
C6775	F1K2J332A014	C 3300UF, K,6.3V	1	
C6778	F1K2J332A014	C 3300UF, K,6.3V	1	
C7101	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7102	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7103-05	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C7107	F1K2A1040004	C 0.1UF, 100V	1	
C7111	F1K2A1040004	C 0.1UF, 100V	1	
C7113	F1K2A1040004	C 0.1UF, 100V	1	
C7115	F1K2A1040004	C 0.1UF, 100V	1	
C7142	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7147	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7148	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7149	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7150	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7151	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7152	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7153-55	ECJ1XC1H101J	C 100PF, J, 50V	3	
C7201	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7202	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7203,04	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C7206	ECJ2VF1C105Z	C 1UF, Z, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7207	F1K2A1040004	C 0.1UF, 100V	1	
C7210	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7211	F1K2A1040004	C 0.1UF, 100V	1	
C7213	F1K2A1040004	C 0.1UF, 100V	1	
C7217	F1K2A1040004	C 0.1UF, 100V	1	
C7219	F1K2A1040004	C 0.1UF, 100V	1	
C7235	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7236	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7239	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7242-44	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C7246	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7250	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7252-56	ECJ1XC1H101J	C 100PF, J, 50V	5	
C7406	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7505,06	EEUFC1E471	E 470UF, 25V	2	
C7509	ECA1HHG100	E 10UF, 50V	1	
C7511,12	EEUFC1E471	E 470UF, 25V	2	
C7513	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C7515	ECA1CHG471	E 470UF, 16V	1	
C7516	EEUFC1E471	E 470UF, 25V	1	
C7517	EEUFC1C821	E 820UF, 16V	1	
C7518	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C7521	EEUFC1E471	E 470UF, 25V	1	
C7522	EEUFC1C821	E 820UF, 16V	1	
C7523	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C7532	EEUFC1C331	E 330UF, 16V	1	
C7536,37	ECJ2VF1C474Z	C 0.47UF, Z, 16V	2	
C7541-44	ECJ2VF1C104Z	C 0.1UF, Z, 16V	4	
C7551,52	EEUFC1E221	E 220UF, 25V	2	
C7554	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7568	ECA1HHG220	E 22UF, 50V	1	
C7570,71	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C7572	ECA1HHG100	E 10UF, 50V	1	
C7573	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7581	ECA1HHG4R7	E 4.7UF, 50V	1	
C7582	ECJ2VB1C224K	C 0.22UF, K, 16V	1	
C7583	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7584	ECJ2XC1H271J	C 270PF, J, 50V	1	
C7585	EEUFC1H100L	E 10UF, 50V	1	
C9030,31	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C9032,33	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9034,35	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C9036,37	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C9038,39	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9040	ECJ2VB1E473K	C 0.047UF, K, 25V	1	
C9041	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9042,43	ECJ2VB1E473K	C 0.047UF, K, 25V	2	
C9044	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C9045,46	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9048,49	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9051	ECJ1XB1C393K	C 0.039UF, K, 16V	1	
C9053	ECJ1VB1H392K	C 3900PF, K, 50V	1	
C9054-56	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9077	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9150	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9151	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9153	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9154	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9156	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9157-60	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C9161	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9162	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9163-70	ECJ1XF1C104Z	C 0.1UF, Z, 16V	8	
C9172-74	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9175	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9176	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9178-82	ECJ1XF1C104Z	C 0.1UF, Z, 16V	5	
C9183	ECJ1XC1H102J	C 1000PF, J, 50V	1	
C9186	ECJ1XC1H100D	C 10PF, D, 50V	1	
C9187	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9191	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9192	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C9195	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C9196	ECJ3XB1C105K	C 1UF, K, 16V	1	
C9197	ECJ2VB1E563K	C 0.056UF, K, 25V	1	
C9198	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C9199,00	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9207	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9301	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9302	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9303	EEVHB1C470	E 47UF, 16V	1	
C9304	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9305	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9307	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9308	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9309	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9310	ECJ1XC1H330J	C 33PF, J, 50V	1	
C9311	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9312,13	ECJ1XC1H330J	C 33PF, J, 50V	2	
C9314,15	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	
C9316	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9449	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9450	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9453	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9454,55	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	
C9465	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9466	EEVHB0G221	E 220UF, 4V	1	
C9467	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9468	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9470	ECJ1XC1H101J	C 100PF, J, 50V	1	
C9471	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9472	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9474	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9475-77	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9478	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9479-82	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C9485-93	ECJ1XF1C104Z	C 0.1UF, Z, 16V	9	
C9494,95	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9496	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9598,99	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C9601-09	ECJ1XF1C104Z	C 0.1UF, Z, 16V	9	
C9611	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9612	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9613	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9615-25	ECJ1XF1C104Z	C 0.1UF, Z, 16V	11	
C9629-41	ECJ1XF1C104Z	C 0.1UF, Z, 16V	13	
C9700,01	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9702	EEVHB1C470	E 47UF, 16V	1	
C9703	ECJ1XC1H101J	C 100PF, J, 50V	1	
C9705	ECJ1XF1H102Z	C 1000PF, Z, 50V	1	
C9706,07	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9708-10	EEVHB1C470	E 47UF, 16V	3	
C9712-17	ECJ1XC1H101J	C 100PF, J, 50V	6	
C9718	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9719	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9720	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9722,23	ECJ1XC1H100D	C 10PF, D, 50V	2	
C9724	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9725	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9726	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9727,28	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9729	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9730-33	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C9737	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9739-41	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9742	EEVHB1C470	E 47UF, 16V	1	
C9743	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C9748,49	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9750	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9751,52	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C9753,54	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9755,56	ECJ1XF1H102Z	C 1000PF, Z, 50V	2	
C9759	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9760	ECJ1VB1C563K	C 0.056UF, K, 16V	1	
C9761,62	ECJ1XC1H330J	C 33PF, J, 50V	2	
C9763	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9765	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9766	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9767,68	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C9769	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9774,75	ECJ1XC1H330J	C 33PF, J, 50V	2	
C9951-53	EEVHB1C470	E 47UF, 16V	3	
C9954-56	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9957	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9958,59	F2H1E221A007	E 2.2UF, 25V	2	
C9960	ECJ3VB1C104K	C 0.10UF, K, 16V	1	
C9961	EEFUD0G121ER	120UF	1	
C9964,65	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9966	EEVHB0G221	E 220UF, 4V	1	
C9967	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9968	EEVHB1C470	E 47UF, 16V	1	
C9969	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9970	ECJ2XB1E104K	C 0.1UF, K, 25V	1	
C9971	ECJ2XC1H222J	C 2200PF, J, 50V	1	
CB1-B7	K1MN80B00004	80P CONNECTOR	7	
CF901	ERZV10V621P2	VARISTOR	1	⚠
D3	K1KA40A00140	40P CONNECTOR	1	
D4	K1KA12A00227	12 PIN PH (2.0MM)	1	
D10	K1KA12A00254	12P CONNECTOR	1	
D12	K1KA07A00189	7P CONNECTOR	1	
D20	K1KA20A00180	20P CONNECTOR	1	
D25	K1KA08A00293	8P CONNECTOR	1	
D27	K1KA09A00077	9P CONNECTOR	1	
D31,32	K1MN50B00026	50P CONNECTOR	2	
D300,01	MA152K	DIODE	2	MA3X152K
D302	LNH101WHKAF4	LED	1	
D303	MA152K	DIODE	1	MA3X152K
D308	MA8056M	ZENER DIODE	1	MAZ80560M
D309,10	MA152K	DIODE	2	MA3X152K
D401-03	MA152K	DIODE	3	MA3X152K
D404	S1WBA80Z	DIODE	1	⚠
D405	MA3082L	ZENER DIODE	1	MAZ30820L
D406	B0EAEV000001	DIODE	1	
D407	B0HCMM000001	DIODE	1	
D408	PC123FY2	PHOTO COUPLER	1	B3PAA0000012 ⚠
D409-11	B0HCMM000001	DIODE	3	
D412	MA3051M	ZENER DIODE	1	MAZ30510M
D413	MA3200M	ZENER DIODE	1	MAZ32000M
D451	B0FBBR000019	DIODE	1	⚠
D452	B0HCMM000001	DIODE	1	
D453	MA3270M	ZENER DIODE	1	MAZ32700M
D454	B0HCMM000001	DIODE	1	
D457	B0HARR000016	DIODE	1	
D458,59	MA3270M	ZENER DIODE	2	MAZ32700M
D460	MA3100L	ZENER DIODE	1	
D462	B0EAKT000012	DIODE	1	
D463	M1FS4	DIODE	1	
D550	B0HCMM000001	DIODE	1	
D551,52	B0BA02700021	DIODE	2	
D553-56	B0HCMM000001	DIODE	4	
D557,58	B0BA01000046	DIODE	2	
D559	B0HCMM000001	DIODE	1	
D560	RC3B2LFU1	DIODE	1	
D561,62	B0HCMM000001	DIODE	2	
D563	RC3B2LFU1	DIODE	1	
D564	B0HCMM000001	DIODE	1	
D565,66	PC123FY2	PHOTO COUPLER	2	B3PAA0000012 ⚠
D567	B0HARR000009	DIODE	1	
D568	B0HFRJ000012	DIODE	1	
D570	B0HARR000009	DIODE	1	
D571	MA3056M	ZENER DIODE	1	MAZ30560M
D572	B0HCMM000001	DIODE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D573,74	B0HFRJ000012	DIODE	2	
D575	M1FS4	DIODE	1	
D576	B0HCMM000001	DIODE	1	
D577-84	MA152K	DIODE	8	MA3X152K
D585	MA3056M	ZENER DIODE	1	MAZ30560M
D586	B0HCMM000001	DIODE	1	
D587	M1FS4	DIODE	1	
D589	B0HCMM000001	DIODE	1	
D590	MA152K	DIODE	1	MA3X152K
D592,93	B0HCMM000001	DIODE	2	
D594	MA3056M	ZENER DIODE	1	MAZ30560M
D595	MA152K	DIODE	1	MA3X152K
D596	MA3051M	ZENER DIODE	1	MAZ30510M
D650	B0HCMM000001	DIODE	1	
D652	B0HCMM000001	DIODE	1	
D654	MA3056M	ZENER DIODE	1	MAZ30560M
D660	B0HFRJ000012	DIODE	1	
D661	MA152K	DIODE	1	MA3X152K
D2301,02	M1FS4	DIODE	2	
D2310-13	MA152K	DIODE	4	MA3X152K
D2316	M1FS4	DIODE	1	
D3715	MA3110M	ZENER DIODE	1	MAZ31100M
D3717	MA3100L	ZENER DIODE	1	
D3719	MA3100L	ZENER DIODE	1	
D3764	MA3110M	ZENER DIODE	1	MAZ31100M
D3766	MA3110M	ZENER DIODE	1	MAZ31100M
D6401-03	MA8056H	ZENER DIODE	3	MAZ80560H
D6405	D1FL40F4063	DIODE	1	B0ECHP000001
D6406,07	MA8056H	ZENER DIODE	2	MAZ80560H
D6409-12	D1FL40F4063	DIODE	4	B0ECHP000001
D6451	M1FS4	DIODE	1	
D6453	MA111	DIODE	1	MA2J111
D6454	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6455	MA111	DIODE	1	MA2J111
D6456	D1FL40F4063	DIODE	1	B0ECHP000001
D6458	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6459	MA111	DIODE	1	MA2J111
D6460,61	B0HCKS000001	DIODE	2	
D6462	M1FS4	DIODE	1	
D6463	MA8056H	ZENER DIODE	1	MAZ80560H
D6464	M1FS4	DIODE	1	
D6465,66	MA8330M	ZENER DIODE	2	MAZ83300M
D6467	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6468	MA111	DIODE	1	MA2J111
D6469	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6470	MA111	DIODE	1	MA2J111
D6473	MA111	DIODE	1	MA2J111
D6474	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6475	MA111	DIODE	1	MA2J111
D6476	D1FL40F4063	DIODE	1	B0ECHP000001
D6477	MA111	DIODE	1	MA2J111
D6478	B0HCKS000001	DIODE	1	
D6479	MA111	DIODE	1	MA2J111
D6480	TLP181	PHOTO COUPLER	1	B3PBA0000081

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D6481,82	MA8330M	ZENER DIODE	2	MAZ83300M
D6483-90	MA8056H	ZENER DIODE	8	MAZ80560H
D6491-94	D1FL40F4063	DIODE	4	B0ECHP000001
D6495	B0HCKS000001	DIODE	1	
D6496	M1FS4	DIODE	1	
D6501-08	K7GBZEE00006	DIODE	8	
D6509	MA111	DIODE	1	MA2J111
D6511	B0HCMM000009	DIODE	1	
D6512-14	MA111	DIODE	3	MA2J111
D6515	MA8240M	ZENER DIODE	1	MAZ82400M
D6516	MA111	DIODE	1	MA2J111
D6517	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6519	MA111	DIODE	1	MA2J111
D6520	B0JCKG000001	DIODE	1	
D6521	D1FL40F4063	DIODE	1	B0ECHP000001
D6522	MA111	DIODE	1	MA2J111
D6523	D1FL40F4063	DIODE	1	B0ECHP000001
D6524	MA8051L	ZENER DIODE	1	MAZ80510L
D6525	MA111	DIODE	1	MA2J111
D6526	B0HCMM000009	DIODE	1	
D6527	MA111	DIODE	1	MA2J111
D6529	M1FS4	DIODE	1	
D6541	B0HCKS000001	DIODE	1	
D6542	MA111	DIODE	1	MA2J111
D6543	MA8051L	ZENER DIODE	1	MAZ80510L
D6544	MA111	DIODE	1	MA2J111
D6545	MA8051L	ZENER DIODE	1	MAZ80510L
D6546-48	MA8330M	ZENER DIODE	3	MAZ83300M
D6549,50	MA111	DIODE	2	MA2J111
D6551	M1FS4	DIODE	1	
D6552,53	MA111	DIODE	2	MA2J111
D6570	B0HCMM000009	DIODE	1	
D6572	D1FL40F4063	DIODE	1	B0ECHP000001
D6582	MA8051L	ZENER DIODE	1	MAZ80510L
D6583	LNJ201LPQJA	LED	1	
D6584	MA111	DIODE	1	MA2J111
D6585,86	MA8330M	ZENER DIODE	2	MAZ83300M
D6611,12	M1FS4	DIODE	2	
D6615	D1FL40F4063	DIODE	1	B0ECHP000001
D6620-22	SF20LC30F10	DIODE	3	
D6624	SF20LC30F10	DIODE	1	
D6629	B0HBSM000031	DIODE	1	
D6635	MA8051L	ZENER DIODE	1	MAZ80510L
D6636	MA111	DIODE	1	MA2J111
D6637	D1FL40F4063	DIODE	1	B0ECHP000001
D6640	D1FL40F4063	DIODE	1	B0ECHP000001
D6641,42	M1FS4	DIODE	2	
D6645-47	D1FL40F4063	DIODE	3	B0ECHP000001
D6711,12	M1FS4	DIODE	2	
D6715	D1FL40F4063	DIODE	1	B0ECHP000001
D6720-22	SF20LC30F10	DIODE	3	
D6724	SF20LC30F10	DIODE	1	
D6729	B0HBSM000031	DIODE	1	
D6735	MA8051L	ZENER DIODE	1	MAZ80510L

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D6736	MA111	DIODE	1	MA2J111
D6737	D1FL40F4063	DIODE	1	B0ECHP000001
D6740,41	D1FL40F4063	DIODE	2	B0ECHP000001
D6750,51	D1FL40F4063	DIODE	2	B0ECHP000001
D6752,53	M1FS4	DIODE	2	
D6754	D1FL40F4063	DIODE	1	B0ECHP000001
D6755	M1FS4	DIODE	1	
D6757	D1FL40F4063	DIODE	1	B0ECHP000001
D6758,59	MA111	DIODE	2	MA2J111
D6762	MA111	DIODE	1	MA2J111
D6763	MA8051L	ZENER DIODE	1	MAZ80510L
D6764	MA111	DIODE	1	MA2J111
D6765	LNJ201LPQJA	LED	1	
D6766,67	MA8330M	ZENER DIODE	2	MAZ83300M
D6768	MA111	DIODE	1	MA2J111
D6769	LNJ201LPQJA	LED	1	
D7201-04	MA152K	DIODE	4	MA3X152K
D7504	MA737	DIODE	1	MA2Q737
D7505	MA2120A	ZENER DIODE	1	MAZ21200A
D7507	MA737	DIODE	1	MA2Q737
D7508	MA2068A	ZENER DIODE	1	
D7511	MA2051A	ZENER DIODE	1	MAZ20510A
D7512	MA737	DIODE	1	MA2Q737
D7513	MA2051A	ZENER DIODE	1	MAZ20510A
D7515	MA737	DIODE	1	MA2Q737
D7537,38	MA111	DIODE	2	MA2J111
D7539	MA3047H	ZENER DIODE	1	
D7540	MA3039H	ZENER DIODE	1	MAZ30390H
D7541,42	MA111	DIODE	2	MA2J111
D7544,45	MA111	DIODE	2	MA2J111
D7546	MA152	DIODE	1	
D7547-49	MA111	DIODE	3	MA2J111
D7551	MA737	DIODE	1	MA2Q737
D7552	MA152K	DIODE	1	MA3X152K
D7581	MA111	DIODE	1	MA2J111
D7582	MA3X78900L	ZENER DIODE	1	
D9705-13	MA3062M	ZENER DIODE	9	MAZ30620M
D9715	MA3062M	ZENER DIODE	1	MAZ30620M
D9716	MA111	DIODE	1	MA2J111
D9719,20	MA3062M	ZENER DIODE	2	MAZ30620M
D9723	MA3062M	ZENER DIODE	1	MAZ30620M
D9724	MA111	DIODE	1	MA2J111
D9727	MA152K	DIODE	1	MA3X152K
D9730	MA152K	DIODE	1	MA3X152K
D9769	MA152K	DIODE	1	MA3X152K
D9771	MA152K	DIODE	1	MA3X152K
D9952	M1FS4	DIODE	1	
D9953	MA152K	DIODE	1	MA3X152K
D9954	M1FS4	DIODE	1	
D9955	B0JCPD000010	DIODE	1	
F900-1,-2	EYF-52BC	FUSE HOLDER	2	
F901-1,-2	EYF-52BC	FUSE HOLDER	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
G5	K1KA06B00117	6P CONNECTOR	1	
G7	K1MN28B00056	28P CONNECTOR	1	
G18	K1KA06B00049	6P CONNECTOR	1	
IC300	B3L000000017	IC	1	
IC401	MIP2E1DMY1TV	IC	1	
IC402	AN1431T	LINEAR IC	1	
IC403	AN7705F	LINEAR IC	1	
IC451	C0DABZG00001	IC	1	
IC550	UPC24M18AHF	LINEAR IC	1	C0CAAME00003
IC551	C5HABZZ00115	IC	1	
IC552	C5HABZZ00080	IC	1	
IC553,54	AN1431T	LINEAR IC	2	
IC555	C0DAAHG00007	IC	1	
IC557,58	AN1431T	LINEAR IC	2	
IC2301,02	C1BA00000309	IC	2	
IC2304	AN7709SP	IC	1	
IC2401	C1BA00000302	IC	1	
IC6401-08	C0HBC0000005	IC	8	
IC6451	AN1431M	LINEAR IC	1	
IC6452,53	AN78L15M	LINEAR IC *	2	
IC6454,55	AN78L05M	LINEAR IC	2	
IC6456	AN1431M	LINEAR IC	1	
IC6471,72	AN1431M	LINEAR IC	2	
IC6491	AN1431M	LINEAR IC	1	
IC6501,02	C0JBAB000417	IC	2	
IC6510	AN78L05M	LINEAR IC	1	
IC6511	C0ZBZ0000735	IC	1	
IC6512	AN78L05M	LINEAR IC	1	
IC6521	C0ZBZ0000735	IC	1	
IC6541,42	C0ZBZ0000735	IC	2	
IC6581	AN6914S	LINEAR IC *	1	
IC6601-03	C0ZBZ0000138	IC	3	
IC6604	AN1431M	LINEAR IC	1	
IC6605,06	C0JBAZ000005	IC	2	
IC6607	C0JBAA000195	IC	1	
IC6701-03	C0ZBZ0000138	IC	3	
IC6704	C0ZBZ0000735	IC	1	
IC6705	AN6914S	LINEAR IC *	1	
IC6706	C0JBAZ000005	IC	1	
IC6711	AN1431M	LINEAR IC	1	
IC7101	C0JBAZ001604	IC	1	
IC7104-06	C0JBAZ001604	IC	3	
IC7201-04	C0JBAZ001604	IC	4	
IC7502-05	C0DAAZG00006	IC	4	
IC7551	C0DAAZG00006	IC	1	
IC7581	C0DBAMA00014	IC	1	
IC9006,07	C0CBCBD00008	IC	2	
IC9009	C0FBAD000069	IC	1	
IC9023	C0JBAZ000855	IC	1	
IC9151	MN845041-A	IC	1	
IC9152,53	C0CBCBD00008	IC	2	
IC9155	C3ABPJ000017	IC	1	
IC9157	C0ABFA000012	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC9301	C1ZBZ0002358	IC	1	
IC9302	C0CBCBD00008	IC	1	
IC9303	C1ZBZ0002357	IC	1	
IC9453	C0DBEZG00004	IC	1	
IC9454	C3ABPJ000043	IC	1	
IC9455	MN84510-A	IC	1	
IC9456	TVRJ952	IC	1	
IC9459	C0JBAZ001992	IC	1	
IC9601	C0JBAZ001604	IC	1	
IC9602	C0JBAZ000855	IC	1	
IC9603,04	C0JBAZ001604	IC	2	
IC9605	C1ZBZ0002329	IC	1	
IC9606	C0EBE0000066	IC	1	
IC9608	C0ZBZ0000764	IC	1	
IC9701	MN102L230	IC	1	
IC9702	C3EBJC000038	IC	1	
IC9703	C0JBAZ001604	IC	1	
IC9704	C3HAHC000006	IC	1	
IC9705	TVRJ951	IC	1	
IC9706	C0JBAZ000855	IC	1	
IC9707	C0JBAE000283	IC	1	
IC9708	C3EBGC000018	IC	1	
IC9709	TVRJ950-1	IC	1	
IC9710	C0EBB0000024	IC	1	
IC9711	C0JBAS000109	IC	1	
IC9951	C0DBAMH00006	IC	1	
IC9952	C0DBAFH00021	IC	1	
JK3709	K1FB315A0001	CONNECTOR	1	
JK3714	K4BK29A00005	PHONO PIN TERMINAL	1	
JK7001-03	K4ZZ01000121	EARTH LUG	3	
JK7004	TJC6137	EARTH LUG	1	
JK7006	K4ZZ01000121	EARTH LUG	1	
JS300,01	ERJ8GEY0R00	M 0 OHM, 1/8W	2	
JS304	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS307-11	ERJ8GEY0R00	M 0 OHM, 1/8W	5	
JS2102	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS2106,07	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
JS2301	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS2304	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS2307,08	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
JS3705,06	ERJ8GEY0R00	M 0 OHM, 1/8W	2	
JS7525	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS7528	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
K5	K1KA06A00220	6P CONNECTOR	1	
K9	K1KA06A00220	6P CONNECTOR	1	
K12	K1KA09A00099	9P CONNECTOR	1	
K24	K1KA08B00005	8P CONNECTOR	1	
K34	K1KA03B00107	3P CONNECTOR	1	
L401	ELEXT100KA	PEAKING COIL	1	
L451	G4D4A0000048	SWITCHING TRANSFORMER	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L452	EXCELDR35C	BEAD CHOKE	1	
L554	TALFP15B221K	INDUCTION COIL	1	G0A221GA0001
L2301,02	TAL10RP221LB	INDUCTION COIL	2	G0ZZ00001909
L2303,04	ERD25V0T	M OHM, 1/10W	2	
L2306	ELJPA100KB	CHIP INDUCTOR	1	
L3767-70	G1C121Z00004	INDUCTOR COIL	4	
L3772,73	J0HABB000003	LC FILTER	2	
L3775-77	J0HABB000004	LC FILTER	3	
L3778-80	TSK1040	FERRITE CORE	3	G1BYYYH00004
L6451	J0JJC0000021	CHIP INDUCTOR	1	
L6453	J0JJC0000021	CHIP INDUCTOR	1	
L6471	J0JJC0000021	CHIP INDUCTOR	1	
L6472	G0ZZ00002183	PEAKING COIL	1	
L6602	G0ZZ00002183	PEAKING COIL	1	
L6604,05	G0ZZ00002183	PEAKING COIL	2	
L6611,12	ELC16BR82L	CHOKE COIL	2	
L6615,16	ELC16BR82L	CHOKE COIL	2	
L6618	J0JJC0000021	CHIP INDUCTOR	1	
L6620-28	G0ZZ00002183	PEAKING COIL	9	
L6634-38	G0ZZ00002183	PEAKING COIL	5	
L6644,45	G0ZZ00002183	PEAKING COIL	2	
L6647,48	J0JJC0000021	CHIP INDUCTOR	2	
L6702-04	G0ZZ00002183	PEAKING COIL	3	
L6705	G0C101K00023	PEAKING COIL	1	
L6711-14	ELC16BR82L	CHOKE COIL	4	
L6717,18	J0JJC0000021	CHIP INDUCTOR	2	
L6719-23	G0ZZ00002183	PEAKING COIL	5	
L6726,27	G0ZZ00002183	PEAKING COIL	2	
L6736,37	G0ZZ00002183	PEAKING COIL	2	
L6744,45	G0ZZ00002183	PEAKING COIL	2	
L6747	J0JJC0000021	CHIP INDUCTOR	1	
L6750	G0ZZ00002183	PEAKING COIL	1	
L7106	ELKE103FA	NOISE FILTER	1	
L7207-09	ELKE103FA	NOISE FILTER	3	
L7504	G0C101K00023	PEAKING COIL	1	
L7505	G0A101ZA0038	CHOKE COIL	1	
L7506	ELESE330JA	PEAKING COIL	1	
L7507	G0C101K00023	PEAKING COIL	1	
L7508	G0A101ZA0038	CHOKE COIL	1	
L7509	ELESE330JA	PEAKING COIL	1	
L7510	G0C101K00023	PEAKING COIL	1	
L7511	G0A101ZA0038	CHOKE COIL	1	
L7512	ELESE330JA	PEAKING COIL	1	
L7513	G0C101K00023	PEAKING COIL	1	
L7514	G0A101ZA0038	CHOKE COIL	1	
L7515	G0A220GA0002	CHOKE COIL	1	
L7551	G0C101K00023	PEAKING COIL	1	
L7552	G0A101ZA0038	CHOKE COIL	1	
L7581	ELESE330JA	PEAKING COIL	1	
L7582	G1C101M00018	INDUCTION COIL	1	
L9452	ELJFA1R0KF	CHIP COIL	1	
L9459	ELKE103FA	NOISE FILTER	1	
L9701	ELKE103FA	NOISE FILTER	1	
L9951-54	ELKE103FA	NOISE FILTER	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L9955	G1C470M00012	INDUCTOR COIL	1	
L9956	G1C1R5Z00002	INDUCTOR COIL	1	
LF904	G0B123K00001	CHOKE COIL	1	⚠
LF909	G0B123K00001	CHOKE COIL	1	⚠
LF915	G0B123K00001	CHOKE COIL	1	⚠
P2	K1KA06A00180	6P CONNECTOR	1	
P5	K1KA11A00073	11P CONNECTOR	1	
P7	TJS1A8800	4P CONNECTOR	1	K1KA04A00242
P9	K1KA02A00244	2P CONNECTOR	1	
P10	TJS1A8810	5P CONNECTOR	1	K1KA05A00177
P11	K1KA07A00096	7P CONNECTOR	1	
P12	K1KA05A00139	5P CONNECTOR	1	
P23	K1KA03A00213	3P CONNECTOR	1	
P25	TJS1A8840	8P CONNECTOR	1	K1KA08A00221
P27	TJS1A8850	9P CONNECTOR	1	K1KA09A00099
PA2	K1KA40A00140	40P CONNECTOR	1	
PA3	K1KA04A00195	4P CONNECTOR	1	
PA4	K1KA12A00227	12 PIN PH (2.0MM)	1	
PA5	K1KA11A00073	11P CONNECTOR	1	
PA6	K1KA20A00180	20P CONNECTOR	1	
PA7	K1KA04A00242	4P CONNECTOR	1	
PA8	K1KA20A00180	20P CONNECTOR	1	
PA12	K1KA07A00189	7P CONNECTOR	1	
PA21	K1KA07A00189	7P CONNECTOR	1	
PA22	K1KA12A00227	12 PIN PH (2.0MM)	1	
PA23	TJS3A9880	8P CONNECTOR	1	K1KA08A00179
PA24	K1KA07A00096	7P CONNECTOR	1	
PF1,F2	K1KA03A00181	3P CONNECTOR	2	
Q300,01	2SD601A	TRANSISTOR	2	2SD0601A
Q305	2SD601A	TRANSISTOR	1	2SD0601A
Q401-04	2SC3311A	TRANSISTOR	4	2SC3311AW
Q405	B1CBGD000001	TRANSISTOR	1	
Q406	2SC3311A	TRANSISTOR	1	2SC3311AW
Q451	B1DEGR000021	TRANSISTOR	1	
Q452	2SD2177R	TRANSISTOR	1	
Q453	2SB1434R	TRANSISTOR	1	2SB14340RA
Q454	B1DEGR000021	TRANSISTOR	1	
Q455,56	2SC3311A	TRANSISTOR	2	2SC3311AW
Q457	2SA1309A	TRANSISTOR	1	2SA13090WA
Q552	B1DEGQ000019	FET	1	
Q553	2SB621A	TRANSISTOR	1	2SB0621AW
Q554,55	2SC3311A	TRANSISTOR	2	2SC3311AW
Q557,58	2SC3311A	TRANSISTOR	2	2SC3311AW
Q650,51	2SC3311A	TRANSISTOR	2	2SC3311AW
Q2301,02	2SD1266A	TRANSISTOR	2	2SD1266AJ
Q2303-06	2SD601A	TRANSISTOR	4	2SD0601A
Q2308-12	2SD601A	TRANSISTOR	5	2SD0601A
Q2402,03	2SD601A	TRANSISTOR	2	2SD0601A

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q2406	2SD601A	TRANSISTOR	1	2SD0601A
Q2408	2SD601A	TRANSISTOR	1	2SD0601A
Q2410	2SD601A	TRANSISTOR	1	2SD0601A
Q6401	2SK620	FET	1	2SK0620
Q6451	B1BBCJ000003	TRANSISTOR	1	
Q6452	2SB709A	TRANSISTOR	1	2SB0709A
Q6454	2SD814A	TRANSISTOR	1	
Q6455	2SD601A	TRANSISTOR	1	2SD0601A
Q6461	B1BBCJ000003	TRANSISTOR	1	
Q6462	2SB709A	TRANSISTOR	1	2SB0709A
Q6463	2SD601A	TRANSISTOR	1	2SD0601A
Q6471	B1BBCJ000003	TRANSISTOR	1	
Q6472	2SB709A	TRANSISTOR	1	2SB0709A
Q6474	2SD814A	TRANSISTOR	1	
Q6475-77	2SD601A	TRANSISTOR	3	2SD0601A
Q6491,92	2SC1473A	TRANSISTOR	2	2SC1473AE
Q6501-04	2SK620	FET	4	2SK0620
Q6511,12	B1DFGL000005	TRANSISTOR	2	
Q6520	2SD601A	TRANSISTOR	1	2SD0601A
Q6521	B1DFES000001	TRANSISTOR	1	
Q6522-27	2SK2993	FET	6	
Q6530	2SB1073001TV	TRANSISTOR	1	
Q6541	2SB1073001TV	TRANSISTOR	1	
Q6542-47	2SK373100L	TRANSISTOR	6	
Q6550	2SC1473A	TRANSISTOR	1	2SC1473AE
Q6551	2SD601A	TRANSISTOR	1	2SD0601A
Q6552	B1DFES000001	TRANSISTOR	1	
Q6553	2SB1073001TV	TRANSISTOR	1	
Q6554	2SD2185R	TRANSISTOR	1	2SD21850R
Q6555	B1DFES000001	TRANSISTOR	1	
Q6581	2SD601A	TRANSISTOR	1	2SD0601A
Q6601,02	2SK3652000SB	TRANSISTOR	2	
Q6603,04	2SK620	FET	2	2SK0620
Q6605,06	2SK3652000SB	TRANSISTOR	2	
Q6611	2SD2185R	TRANSISTOR	1	2SD21850R
Q6612	2SB1073001TV	TRANSISTOR	1	
Q6613	2SD2185R	TRANSISTOR	1	2SD21850R
Q6614	2SB1073001TV	TRANSISTOR	1	
Q6621	2SK3637000VE	TRANSISTOR	1	
Q6624	2SK3637000VE	TRANSISTOR	1	
Q6641,42	B1DFHM000002	TRANSISTOR	2	
Q6671	2SB940A	TRANSISTOR	1	2SB0940AJ
Q6672	2SC1473A	TRANSISTOR	1	2SC1473AE
Q6673	2SD1263A	TRANSISTOR	1	
Q6701,02	2SK3652000SB	TRANSISTOR	2	
Q6705,06	2SK3652000SB	TRANSISTOR	2	
Q6711	2SD2185R	TRANSISTOR	1	2SD21850R
Q6712	2SB1073001TV	TRANSISTOR	1	
Q6713	2SD2185R	TRANSISTOR	1	2SD21850R
Q6714	2SB1073001TV	TRANSISTOR	1	
Q6721	2SK3637000VE	TRANSISTOR	1	
Q6724	2SK3637000VE	TRANSISTOR	1	
Q6725	2SK620	FET	1	2SK0620
Q6741,42	B1DFHM000002	TRANSISTOR	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q6745,46	2SK326800L	FET	2	
Q6751	2SD1263A	TRANSISTOR	1	
Q6752,53	2SC1473A	TRANSISTOR	2	2SC1473AE
Q6756	2SD601A	TRANSISTOR	1	2SD0601A
Q7201,02	2SB709A	TRANSISTOR	2	2SB0709A
Q7501	B1DHDD000012	TRANSISTOR	1	
Q7502	UN2214	TRANSISTOR	1	UNR2214
Q7503	B1DHDD000012	TRANSISTOR	1	
Q7504,05	UN2214	TRANSISTOR	2	UNR2214
Q7509	2SD601A	TRANSISTOR	1	2SD0601A
Q7510	UN2214	TRANSISTOR	1	UNR2214
Q7541-43	2SB709A	TRANSISTOR	3	2SB0709A
Q7544	2SD601A	TRANSISTOR	1	2SD0601A
Q7552,53	UN221N	TRANSISTOR	2	
Q7581	UN5211	TRANSISTOR	1	UNR5211
Q7582	B1ABPF000005	TRANSISTOR	1	
Q9301	2SD601A	TRANSISTOR	1	2SD0601A
Q9400	2SD601A	TRANSISTOR	1	2SD0601A
Q9596-99	2SD601A	TRANSISTOR	4	2SD0601A
Q9601,02	2SD601A	TRANSISTOR	2	2SD0601A
Q9701	2SD601A	TRANSISTOR	1	2SD0601A
Q9702	2SB14400	TRANSISTOR	1	
Q9703,04	2SK620	FET	2	2SK0620
Q9706	2SK620	FET	1	2SK0620
Q9707	2SB709A	TRANSISTOR	1	2SB0709A
Q9708,09	2SD601A	TRANSISTOR	2	2SD0601A
Q9710	2SB709A	TRANSISTOR	1	2SB0709A
Q9714-16	2SD601A	TRANSISTOR	3	2SD0601A
Q9719	2SK620	FET	1	2SK0620
R300	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R301	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R302	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R304	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R306	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R310	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R311	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R312	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R313	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R314	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R317	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R402	ERF10TK3R3	W 3.3 OHM, 10W	1	
R404	ERF10TK3R3	W 3.3 OHM, 10W	1	
R406	ERU5TAJ150	F 15 OHM, 5W	1	⚠
R407	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R408	ERJ6GEYJ6R8	M 6.8 OHM,J,1/10W	1	
R409	ERG1FJS104D	M 100KOHM, J, 1W	1	
R410	ERJ6GEYJ6R8	M 6.8 OHM,J,1/10W	1	
R411	ERDS1FJ101	C 100 OHM, J,1/2W	1	
R412	ERDS1FJ221	C 220 OHM, J,1/2W	1	
R413	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R414	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R415	ERJ6ENF3901	M 3.9KOHM, 1/10W	1	
R416	ERJ6ENF2551	M2.55KOHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R417	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R418	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R420-22	ERJ6GEYJ103	M 10KOHM,J,1/10W	3	
R423	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R424,25	ERJ6GEYJ473	M 47KOHM,J,1/10W	2	
R426,27	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R428	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R429-31	ERJ6ENF3303	M 330KOHM, 1/10W	3	
R432	ERJ6ENF1003	M 100KOHM, 1/10W	1	
R433-35	ERJ6ENF3303	M 330KOHM, 1/10W	3	
R436	ERJ6ENF1202	M 12KOHM, 1/10W	1	
R451	ERDS1FJ274	C 270KOHM, J,1/2W	1	
R452	ERDS1FJ224	C 220KOHM, J,1/2W	1	
R453	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	
R454,55	ERG3FJS333D	M 33KOHM, J, 3W	2	
R456	ERDS1FJ2R7	C 2.7 OHM, J,1/2W	1	
R457,58	ERF5EKR15	W0.15 OHM, 5W	2	
R459	ERJ6GEYJ270	M 27 OHM,J,1/10W	1	
R460	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R461	ERJ6GEYF563	M 56KOHM,F,1/10W	1	
R462	ERG1FJS101D	M 100 OHM, J, 1W	1	
R463	ERDS1FJ220	C 22 OHM, J,1/2W	1	
R464	ERDS1FJ103	C 10KOHM, J,1/2W	1	
R465	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R466	ERJ6ENF2703	M 270KOHM, 1/10W	1	
R467	ERDS1FJ220	C 22 OHM, J,1/2W	1	
R468	ERDS1FJ103	C 10KOHM, J,1/2W	1	
R469	ERDS1FJ221	C 220 OHM, J,1/2W	1	
R470	ERJ6ENF5602	M 56KOHM, 1/10W	1	
R471	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R472-74	ERJ6ENF3303	M 330KOHM, 1/10W	3	
R476	ERJ6ENF3601	M 3.6KOHM, 1/10W	1	
R477	ERJ6ENF4020	M 402 OHM, 1/10W	1	
R478-80	ERJ6ENF3303	M 330KOHM, 1/10W	3	
R481	ERJ6ENF3301	M 3.3KOHM, 1/10W	1	
R482	ERJ6ENF4220	M 422 OHM, 1/10W	1	
R483	ERG2FJS104D	M 100KOHM, J, 2W	1	
R484	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R485	ERG1FJS393D	M 39KOHM, J, 3W	1	
R486	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R487	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R488	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R489	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R490	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	
R491,92	ERJ6GEYJ223	M 22KOHM,J,1/10W	2	
R493	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R502,03	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	2	
R504	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R550	ERX1FJSR56D	M0.56 OHM, J, 1W	1	
R551	ERG2FJS104D	M 100KOHM, J, 2W	1	
R552	ER0S2CKF1053	M 105KOHM, F,1/4W	1	EROS2CKF1053
R553	ERG2FJS104D	M 100KOHM, J, 2W	1	
R554	ER0S2CKF1053	M 105KOHM, F,1/4W	1	EROS2CKF1053
R555	ERJ6ENF2491	M2.49KOHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R556	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R557,58	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	2	
R560	ERX1FJSR56D	M0.56 OHM, J, 1W	1	
R561	ERJ6ENF1212	M12.1KOHM, 1/10W	1	
R563	ERG3FJS683D	M 68KOHM, J, 3W	1	
R564,65	ERJ6GEYJ681	M 680 OHM,J,1/10W	2	
R568	ERX1FJSR56D	M0.56 OHM, J, 1W	1	
R569	ERX2FJSR47D	M 0.47OHM, J, 2W	1	
R571	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R572	ERG3FJS683D	M 68KOHM, J, 3W	1	
R573	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R574	ERX1FJSR56D	M0.56 OHM, J, 1W	1	
R575	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R576	ERX2FJSR47D	M 0.47OHM, J, 2W	1	
R577,78	ERG3FJS683D	M 68KOHM, J, 3W	2	
R579,80	ERDS1FJ220	C 22 OHM, J,1/2W	2	
R581,82	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R583,84	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	2	
R585,86	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R587	ERDS1FJ220	C 22 OHM, J,1/2W	1	
R588	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R589	ERJ6ENF4992	M49.9KOHM, 1/10W	1	
R590	EVMEASA00B14	CONTROL 10KOHMB 0.3W	1	
R591	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R592	ERG1FJS222D	M 2.2KOHM, J, 1W	1	
R593	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R594	ERDS1FJ220	C 22 OHM, J,1/2W	1	
R595	ERDS1FJ471	C 470 OHM, J,1/2W	1	
R596	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R597,98	ERDS1FJ224	C 220KOHM, J,1/2W	2	
R599	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R600	ERDS1FJ224	C 220KOHM, J,1/2W	1	
R601	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R602	ERJ6ENF4642	M46.4KOHM, 1/10W	1	
R603,04	ERJ6ENF4992	M49.9KOHM, 1/10W	2	
R605	EVMEASA00B54	CONTROL 50KOHMB 0.3W	1	
R606	ERJ6ENF2551	M2.55KOHM, 1/10W	1	
R607	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R608	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R609	ERJ6ENF1212	M12.1KOHM, 1/10W	1	
R610	ERJ6ENF3301	M 3.3KOHM, 1/10W	1	
R611	ERJ6ENF1501	M 1.5KOHM, 1/10W	1	
R612	ERJ6ENF2551	M2.55KOHM, 1/10W	1	
R613	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R614	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R615,16	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R617	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R618	ERJ6GEYJ680	M 68 OHM,J,1/10W	1	
R619	ERJ12YJ472	M 4.7KOHM,J, 1/2W	1	
R620	ERJ6GEYJ680	M 68 OHM,J,1/10W	1	
R621	ERJ12YJ472	M 4.7KOHM,J, 1/2W	1	
R623	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R625,26	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R627	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R628	ERDS1FJ470	C 47 OHM, J,1/2W	1	
R630	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R631	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R635	ERJ6ENF2551	M2.55KOHM, 1/10W	1	
R650	ERG1FJS222D	M 2.2KOHM, J, 1W	1	
R652	ERDS1FJ220	C 22 OHM, J,1/2W	1	
R653	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R654	ERJ6GEYJ560	M 56 OHM,J,1/10W	1	
R655	ERDS1FJ472	C 4.7KOHM, J,1/2W	1	
R656,57	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	2	
R901,02	ERC12ZGK105	S 1MOHM, K,1/2W	2	⚠
R2305,06	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	2	
R2307,08	ERJ6GEYJ271	M 270 OHM,J,1/10W	2	
R2311-16	ERDS1FJ2R2	C 2.2 OHM, J,1/2W	6	
R2317,18	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R2319,20	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R2346,47	ERJ6GEYJ123	M 12KOHM,J,1/10W	2	
R2348	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2371	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	
R2372	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2373	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R2374	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2375	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2376	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2377	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R2378	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2386	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2387	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R2389	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R2390	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2391	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2392	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2393	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2398	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2401-04	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R2405,06	ERJ6GEYJ561	M 560 OHM,J,1/10W	2	
R2431	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R2434	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2438	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2439	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R2440	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2441	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R2445	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2448	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2450	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R2452	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R2453	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2456	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2457	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R2460	ERJ6ENF1802	M 18KOHM, 1/10W	1	
R2461,62	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R2463	ERJ6ENF1502	M 15KOHM, 1/10W	1	
R2464	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2466	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2467	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R2468	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2469	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2470	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2471	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R2472	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2473	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R2476,77	ERJ6GEYJ220	M 22 OHM,J,1/10W	2	
R2480	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2481,82	ERJ6GEYJ153	M 15KOHM,J,1/10W	2	
R2483	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2484	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R2494	ERJ12YJ821	M 820 OHM,J, 1/2W	1	
R3701	ERJ6GEYJ683	M 68KOHM,J,1/10W	1	
R3702	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R3703	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R3704,05	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R3706	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R3711	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3712-14	ERJ6ENF75R0	M 75 OHM, 1/10W	3	
R3715,16	ERJ6GEYJ184	M 180KOHM,J,1/10W	2	
R3720,21	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R3723,24	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3725,26	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R6401-08	ERJ6GEYJ221	M 220 OHM,J,1/10W	8	
R6409	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R6410,11	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R6412	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6413	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R6420-23	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R6424	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R6425-28	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R6429	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R6431	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6433	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6441	ERJ6ENF7502	M 75KOHM, 1/10W	1	
R6442	ERJ6ENF6982	M69.8KOHM, 1/10W	1	
R6443	EVMEASA00B24	CONTROL 20KOHMB 0.3W	1	
R6444	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	
R6445	ERJ6ENF2551	M2.55KOHM, 1/10W	1	
R6446	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R6447	ERG2FJS223D	M 22KOHM, J, 2W	1	
R6448	ERG2FJS472D	M 82KOHM, J, 3W	1	
R6449,50	ERJ12YJ1R0	M 1 OHM, J,1/2W	2	
R6452	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6453	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6454	ERDS1FJ221	C 220 OHM, J,1/2W	1	
R6455	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R6456	ERJ6ENF4533	M 453KOHM, 1/10W	1	
R6457,58	ERJ6ENF1002	M 10KOHM, 1/10W	2	
R6459	ERJ14YJ104	M 100KOHM, J,1/4W	1	
R6460	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6463	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6464	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6465	ERX2FJS8R2D	M 8.2 OHM, J, 2W	1	
R6466	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6467	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R6468	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6469	ERJ6GEYJ163	M 16KOHM,J,1/10W	1	
R6470	ERJ14YJ153	M 15KOHM, 1/2W	1	
R6471	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6472	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6473	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6474	ERDS1FJ221	C 220 OHM, J,1/2W	1	
R6475	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R6476	ERJ6ENF3243	M 324KOHM, 1/10W	1	
R6477	EVMEASA00B53	CONTROL 5KOHMB 0.3W	1	
R6478	ERJ6ENF6981	M6.98KOHM, 1/10W	1	
R6479	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6480	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6482	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6483	ERJ14YJ622	M 62KOHM, J,1/4W	1	
R6484	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6485,86	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6487	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6488	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6489	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6491	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6492,93	ERJ6ENF2203	M 220KOHM, 1/10W	2	
R6495,96	ERJ12YJ1R0	M 1 OHM, J,1/2W	2	
R6497	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6498,99	ERX1FJS8R2D	M 8.2 OHM, J, 1W	2	
R6500	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R6501-09	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	9	
R6510	ERX3FJS2R2D	M 2.2 OHM, J, 3W	1	
R6511	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6512	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R6513	ERX3FJS2R2D	M 2.2 OHM, J, 3W	1	
R6514	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6515	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6516	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R6517	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6518	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R6519	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6520	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R6521	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6522	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6524	ERJ6ENF2001	M 2KOHM, 1/10W	1	
R6525	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6526	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6527	ERJ14YJ102	M 1KOHM, J,1/4W	1	
R6528	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6529	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6530-35	ERJ6GEYJ220	M 22 OHM,J,1/10W	6	
R6538	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6539	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R6540	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6541	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6542-47	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	6	
R6550	ERG1FJS332D	M 3.3KOHM, J, 1W	1	
R6551-53	ERJ6ENF1003	M 100KOHM, 1/10W	3	
R6554	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R6555	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6556	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	1	
R6557	EVMEASA00B14	CONTROL 10KOHMB 0.3W	1	
R6558	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6559	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6560,61	ERJ6GEYJ470	M 47 OHM,J,1/10W	2	
R6562	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6563	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	1	
R6565	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6566	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R6567,68	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R6571-78	ERJ6GEYJ471	M 470 OHM,J,1/10W	8	
R6580	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6581	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R6582,83	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R6584	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6585	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6586	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6587	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R6588,89	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6590	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6591	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R6592,93	ERJ6GEYJ224	M 220KOHM,J,1/10W	2	
R6594	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6595,96	ERJ6ENF5231	M5.23KOHM, 1/10W	2	
R6599,00	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6601	ERD25V0T	M OHM, 1/10W	1	
R6603	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6604	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6605-07	ERJ6GEYJ224	M 220KOHM,J,1/10W	3	
R6608,09	ERJ12YJ1R0	M 1 OHM, J,1/2W	2	
R6610	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6611-14	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	4	
R6615	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R6616	ERDS1FJ221	C 220 OHM, J,1/2W	1	
R6617,18	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	2	
R6619,20	ERJ6GEYJ240	M 24 OHM,J,1/10W	2	
R6621	ERJ6ENF1543	M 154KOHM, 1/10W	1	
R6623	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6624	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6625	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6626	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6627,28	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R6629	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	
R6630-35	ERJ12Y0R00	M 0 OHM,J, 1/2W	6	
R6636-39	ERJ12YJ1R0	M 1 OHM, J,1/2W	4	
R6641,42	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	2	
R6643,44	ERJ12YJ220	M 22 OHM,J, 1/2W	2	
R6645,46	ERJ6GEYJ151	M 150 OHM,J,1/10W	2	
R6647,48	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6649-54	ERJ6GEYJ680	M 68 OHM,J,1/10W	6	
R6655	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6656	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6658	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6659,60	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R6661,62	ERJ6GEYJ470	M 47 OHM,J,1/10W	2	
R6663	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R6664	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R6665,66	ERJ6GEYJ680	M 68 OHM,J,1/10W	2	
R6667,68	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R6669	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R6670	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R6671	ERG3FJS821D	M 820 OHM, J, 3W	1	
R6672	ERJ12YJ101	M 100 OHM,J, 1/2W	1	
R6673	ERG1SJ100P	M 10 OHM, J, 1W	1	
R6675	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R6676	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R6678,79	ERJ3GEYJ471	M 470 OHM,J,1/16W	2	
R6680,81	ERJ3GEYJ473	M 47KOHM,J,1/16W	2	
R6682-85	ERJ3GEYJ471	M 470 OHM,J,1/16W	4	
R6686-89	ERJ3GEYJ473	M 47KOHM,J,1/16W	4	
R6690,91	ERJ3GEYJ471	M 470 OHM,J,1/16W	2	
R6692,93	ERJ3GEYJ473	M 47KOHM,J,1/16W	2	
R6694,95	ERJ3GEYJ471	M 470 OHM,J,1/16W	2	
R6697,98	ERJ3GEYJ473	M 47KOHM,J,1/16W	2	
R6701	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6702	ERD25V0T	M OHM, 1/10W	1	
R6711-14	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	4	
R6719,20	ERJ6GEYJ240	M 24 OHM,J,1/10W	2	
R6723	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6724	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6725	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6726	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6727,28	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R6730-35	ERJ12Y0R00	M 0 OHM,J, 1/2W	6	
R6736-39	ERJ12YJ1R0	M 1 OHM, J,1/2W	4	
R6741,42	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	2	
R6743,44	ERJ12YJ220	M 22 OHM,J, 1/2W	2	
R6747,48	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	2	
R6755	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6756	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6759,60	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R6761	ERJ12YJ470	M 47 OHM, J,1/2W	1	
R6762-64	ERJ6GEYJ224	M 220KOHM,J,1/10W	3	
R6765	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6766-68	ERJ6GEYJ223	M 22KOHM,J,1/10W	3	
R6769,70	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R6771	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6772	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6773	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	
R6774	EVMEASA00B53	CONTROL 5KOHMB 0.3W	1	
R6777,78	ERX3FJSR22D	M 2.2 OHM, J, 3W	2	
R6779,80	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6781	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6782,83	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R6784	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R6785,86	ERJ6GEYJ470	M 47 OHM,J,1/10W	2	
R6787	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6788	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6789	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6801-03	ERJ3GEYJ471	M 470 OHM,J,1/16W	3	
R6804-06	ERJ3GEYJ473	M 47KOHM,J,1/16W	3	
R6807-09	ERJ3GEYJ471	M 470 OHM,J,1/16W	3	
R6810-12	ERJ3GEYJ473	M 47KOHM,J,1/16W	3	
R6818,19	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R6820	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6821	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6823	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R6824	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6825	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6826	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R6827	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R7105	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7111-21	ERJ14YJ220	M 22 OHM, J,1/4W	11	
R7126-28	ERJ3GEYJ470	M 47 OHM,J,1/16W	3	
R7130	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7132	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7136	ERJ14YJ220	M 22 OHM, J,1/4W	1	
R7142-59	ERJ3GEYJ470	M 47 OHM,J,1/16W	18	
R7161	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7162-65	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R7166-69	ERJ3GEYJ220	M 22 OHM,J,1/16W	4	
R7170-73	ERJ3GEYJ121	M 120 OHM,J,1/16W	4	
R7175-77	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
R7178	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7187	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7188	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7189	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7190	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R7192	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7205	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7211-18	ERJ14YJ220	M 22 OHM, J,1/4W	8	
R7219	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R7221-24	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R7226-30	ERJ3GEYJ470	M 47 OHM,J,1/16W	5	
R7232	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7233-40	ERJ14YJ220	M 22 OHM, J,1/4W	8	
R7241-64	ERJ3GEYJ470	M 47 OHM,J,1/16W	24	
R7268,69	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R7278	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7285-87	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
R7289-92	ERJ3GEYJ181	M 180 OHM,J,1/16W	4	
R7293-96	ERJ3GEYJ121	M 120 OHM,J,1/16W	4	
R7297-00	ERJ3GEYJ220	M 22 OHM,J,1/16W	4	
R7301-04	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R7305	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7306	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7309,10	ERJ6GEY0R00	M 0 OHM, 1/10W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7503	ERJ6ENF8060	M 806 OHM, 1/10W	1	
R7504	ERJ6ENF3921	M3.92KOHM, 1/10W	1	
R7505	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7506	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7507	ERJ6ENF8060	M 806 OHM, 1/10W	1	
R7508	ERJ6ENF1871	M1.87KOHM, 1/10W	1	
R7509	ERJ6ENF8060	M 806 OHM, 1/10W	1	
R7510	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R7511	ERJ6ENF8060	M 806 OHM, 1/10W	1	
R7512	ERJ6ENF6040	M 604 OHM, 1/10W	1	
R7515	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7517	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R7518	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7519	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R7520	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7522,23	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R7525-27	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	3	
R7532	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7533	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7534	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7535	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R7536	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7537,38	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R7539	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7540	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R7541	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7542	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7543	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7544	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7545,46	ERJ6ENF2201	M 2.2KOHM, 1/10W	2	
R7547	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R7548	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7549	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7550	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R7551	ERJ6ENF7321	M7.32KOHM, 1/10W	1	
R7552	ERJ6ENF1071	M1.07KOHM, 1/10W	1	
R7557	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7558	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7559	ERJ6ENF4700	M 470 OHM, 1/10W	1	
R7579	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7580	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7583	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7584	ERJ6GEYJ512	M 5.1KOHM,J,1/10W	1	
R7585	ERJ6ENF8202	M 82KOHM, 1/10W	1	
R7586	ERJ6ENF1371	M1.37KOHM, 1/10W	1	
R7588	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7590	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7591	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R9018-20	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9022-24	ERJ3GEYJ750	M 75 OHM,J,1/16W	3	
R9028	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R9029	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9064	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R9104,05	ERJ3GEY0R00	M 0 OHM, 1/16W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9108-10	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
R9111-13	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9114,15	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R9118	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9122	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9127-29	EXB2HVR000	RESISTOR ARRAY	3	
R9130-32	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R9153,54	EXB2HVR000	RESISTOR ARRAY	2	
R9157	EXB2HVR000	RESISTOR ARRAY	1	
R9167,68	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9171,72	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9176	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9177	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9178,79	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9180	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9182	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9183	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R9187	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9190	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9199	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9200	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9202	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9203-05	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9206-08	ERJ3GEYJ100	M 10 OHM,J,1/16W	3	
R9216	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9218	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9219	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R9220,21	ERJ3GEYJ151	M 150 OHM,J,1/16W	2	
R9224	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R9226	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9228	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9229,30	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9231	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R9232	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9234	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9236	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9240	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R9244,45	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9302	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9303	EXB38V103J	RESISTOR ARRAY	1	
R9306	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9308	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9310	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9311	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9315	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9322	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9330	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9333	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9335	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9336	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9337	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9339	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9349	EXB38V470J	RESISTOR ARRAY	1	
R9352	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9353	EXB38V470J	RESISTOR ARRAY	1	
R9355,56	ERJ3GEYJ100	M 10 OHM,J,1/16W	2	
R9357	EXB38V470J	RESISTOR ARRAY	1	
R9362	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9365	EXB38V470J	RESISTOR ARRAY	1	
R9367	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9368	EXB38V470J	RESISTOR ARRAY	1	
R9371	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9373	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9376	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9380	EXB38V151J	RESISTOR ARRAY	1	
R9411	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9413	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9415	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9420	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9449	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9455	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9459	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9460-62	ERJ3GEYJ100	M 10 OHM,J,1/16W	3	
R9465,66	EXB2HVR000	RESISTOR ARRAY	2	
R9468	EXB2HVR000	RESISTOR ARRAY	1	
R9469	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9475	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9476	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9477,78	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9479	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9480,81	ERJ6ENF1001	M 1KOHM, 1/10W	2	
R9483	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9484,85	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R9486,87	ERJ6ENF1001	M 1KOHM, 1/10W	2	
R9488,89	ERJ3GEYJ100	M 10 OHM,J,1/16W	2	
R9490,91	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9501	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9503	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9513-15	ERJ3GEYJ100	M 10 OHM,J,1/16W	3	
R9525,26	EXB38V470J	RESISTOR ARRAY	2	
R9530	EXB38V470J	RESISTOR ARRAY	1	
R9532	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9535	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9537	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9538	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9540	EXB38V470J	RESISTOR ARRAY	1	
R9541	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9547	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9548	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9551	EXB38V470J	RESISTOR ARRAY	1	
R9553	EXB38V680J	RESISTOR ARRAY	1	
R9557	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9558	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9559	EXB38V470J	RESISTOR ARRAY	1	
R9560	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9562	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9563	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9569,70	ERJ3GEY0R00	M 0 OHM, 1/16W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9577	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9579-81	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9585,86	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R9592	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9593	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9594	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9595	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9596	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9597	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9598,99	EXB38VR000	RESISTOR ARRAY	2	
R9600	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R9601-05	ERJ3GEY0R00	M 0 OHM, 1/16W	5	
R9608,09	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9611-17	ERJ3GEY0R00	M 0 OHM, 1/16W	7	
R9618	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9620,21	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9624	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9625	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R9627,28	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9631-35	ERJ3GEY0R00	M 0 OHM, 1/16W	5	
R9638	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9640,41	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9642	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9643	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9645	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9646	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9647	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9648	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9650-53	EXB38V103J	RESISTOR ARRAY	4	
R9654-57	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9658	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9659-61	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	3	
R9662	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9663-69	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	7	
R9670-72	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9674	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9679	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9682-84	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9686-88	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9692	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9693	EXB38V103J	RESISTOR ARRAY	1	
R9694-97	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9699,00	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9701	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9702	ERJ3GEYJ680	M 68 OHM,J,1/16W	1	ERJ3GEYJ680V
R9703-08	ERJ3GEYJ101	M 100 OHM,J,1/16W	6	D0GB101JA002
R9709	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9710-16	ERJ3GEYJ151	M 150 OHM,J,1/16W	7	
R9717,18	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9719-24	ERJ3GEYJ151	M 150 OHM,J,1/16W	6	
R9725	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9726	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9727	EXB38VR000	RESISTOR ARRAY	1	
R9728	ERJ3GEY0R00	M 0 OHM, 1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9730-32	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R9733	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R9734	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9735	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9736	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R9737	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9738,39	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R9741	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9743-45	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9747	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9748	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9749	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9750	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9751	EXB38V103J	RESISTOR ARRAY	1	
R9752	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9754	EXB38V272J	RESISTOR ARRAY	1	
R9755,56	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R9757	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9758	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9759	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9760	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9761	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9762	EXB38V103J	RESISTOR ARRAY	1	
R9763	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9765	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9766	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9767	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9768	EXB38V470J	RESISTOR ARRAY	1	
R9769	EXB38VR000	RESISTOR ARRAY	1	
R9770	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9771	EXB38VR000	RESISTOR ARRAY	1	
R9773	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9774-76	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9777	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R9779	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9781	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9782	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R9783,84	ERJ3GEYJ560	M 56 OHM,J,1/16W	2	
R9785,86	EXB38VR000	RESISTOR ARRAY	2	
R9787	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9788	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9789	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R9790	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R9791	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9794	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R9795	ERJ3GEYJ105	M 1MOHM,J,1/16W	1	
R9798,99	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R9800	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9803,04	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R9805	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9806	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9807,08	EXB38V103J	RESISTOR ARRAY	2	
R9809	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9810,11	ERJ3GEY0R00	M 0 OHM, 1/16W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9814	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9816	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9817	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9818,19	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R9820	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9823,24	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9825	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9826	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9827	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9829	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9831,32	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9833	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9834,35	ERJ3GEYJ560	M 56 OHM,J,1/16W	2	
R9836	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9837	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9838	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9839,40	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R9841,42	ERJ3GEYJ560	M 56 OHM,J,1/16W	2	
R9843,44	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9846,47	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9848	EXB38V103J	RESISTOR ARRAY	1	
R9849,50	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R9851	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9852,53	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9855	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9856	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9857	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9858	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9859	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9860	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9861	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9864	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9867	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9868	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9869	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9871	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9872	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9873	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9874,75	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R9876	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9878-80	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R9882,83	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R9885	EXB38V103J	RESISTOR ARRAY	1	
R9886	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9887	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9889	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9890	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9893-96	ERJ3GEYJ101	M 100 OHM,J,1/16W	4	D0GB101JA002
R9897	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9898	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9900	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9901	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9903-05	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9906	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9907	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9908	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9909	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9910	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9913	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	
R9914	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9916	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9917	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9918	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9919	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R9920	ERJ3GEYJ105	M 1MOHM,J,1/16W	1	
R9921-23	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R9924	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9925	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9929,30	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R9931	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9932	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9933	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9934	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9935,36	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R9937	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9939	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9940	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9941	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9942	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9943	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9944	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9945,46	ERJ3GEYJ100	M 10 OHM,J,1/16W	2	
R9947	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9948,49	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9951,52	ERJ3GEYJ471	M 470 OHM,J,1/16W	2	
R9954	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R9956	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9957	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9959,60	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R9961	ERJ6ENF1621	M1.62KOHM, 1/10W	1	
R9962	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R9964	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9965	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9966	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9969	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9970	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9971	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9972	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9973	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9975	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9984-88	ERJ3GEY0R00	M 0 OHM, 1/16W	5	
R9991	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9993,94	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9996	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9998	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
RL401	K6B2ADA00007	REALY	1	⚠
RL402,03	K6B1ADA00009	REALY	2	⚠

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
RM300	PNA4601M04TV	REMOTE CONTROL RECEIVER	1	
RTL	TXNTU1QCSE	CIRCUIT BOARD TU	1	TH-42PA20E ⚠
RTL	TXNTU1QCSB	CIRCUIT BOARD TU	1	TH-42PA20B ⚠
RTL	TNPA2819	CIRCUIT BOARD DG	1	TH-42PA20E ⚠
RTL	TNPA2819AB	CIRCUIT BOARD DG	1	TH-42PA20B ⚠
RTL	TNPA2820	CIRCUIT BOARD H	1	TH-42PA20E ⚠
RTL	TNPA2820AB	CIRCUIT BOARD H	1	TH-42PA20B ⚠
RTL	TXNPA1QCSE	CIRCUIT BOARD PA	1	⚠
RTL	TXNPF1QCSE	CIRCUIT BOARD PF	1	⚠
RTL	TNPA2872	CIRCUIT BOARD SS2	1	⚠
RTL	TNPA2873	CIRCUIT BOARD SS3	1	⚠
RTL	TNPA2957	CIRCUIT BOARD SU	1	⚠
RTL	TNPA2958	CIRCUIT BOARD SD	1	⚠
RTL	TNPA2869	CIRCUIT BOARD C1	1	⚠
RTL	TNPA2870	CIRCUIT BOARD C2	1	⚠
RTL	TXN/D10QCS	CIRCUIT BOARD D	1	⚠
RTL	TNPA2841	CIRCUIT BOARD P	1	⚠
RTL	TXNSC10QBS	CIRCUIT BOARD SC	1	⚠
RTL	TXNSS10QBS	CIRCUIT BOARD SS	1	⚠
RTL	TXN/G1QCSE	CIRCUIT BOARD G	1	⚠
RTL	TXN/K1QCSE	CIRCUIT BOARD K	1	⚠
S300	K0F162B00002	SWITCH	1	
S3701-05	EVQ23405R	SWITCH	5	
SC2	K1KA06A00180	6P CONNECTOR	1	
SC20	K1KA20A00180	20P CONNECTOR	1	
SC23	K1KA03A00213	3P CONNECTOR	1	
SC41-44	K1KB40B00015	40P CONNECTOR	4	
SD1-D3	K1MN80B00004	80P CONNECTOR	3	
SS11	K1KA07A00096	7P CONNECTOR	1	
SS12	K1KA05A00139	5P CONNECTOR	1	
SS23	K1KA11A00073	11P CONNECTOR	1	
SS34	K1KA03A00213	3P CONNECTOR	1	
SS40	K1KB07A00037	7P CONNECTOR	1	
SS41-46	K1MN13B00020	13P CONNECTOR	6	
SS47	K1KB07A00037	7P CONNECTOR	1	
SS48,49	K1KA07A00170	7P CONNECTOR	2	
SU1-U3	K1MN80B00004	80P CONNECTOR	3	
T401	ETS25AD1H6AG	SWITCHING TRANS	1	⚠
T501	ETS49BP116AD	SWITCHING TRANS	1	⚠
T502	ETS42BV116AD	SWITCHING TRANS	1	⚠
T6451	G4D1A0000072	SWITCHING TRANS	1	
T6461	ETS13TB139AP	SWITCHING TRANS	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
T6471	G4D1A0000072	SWITCHING TRANS	1	
TPP1	ERD25V0R00	C 0 OHM, 1/4W	1	
X9302	H0J200500016	CRYSTAL	1	
X9701	H0J245500013	CRYSTAL	1	
X9702	H0J921400003	CRYSTAL	1	
X9703	H0J200500016	CRYSTAL	1	
ZA901	K4ZZ01000121	EARTH LUG	1	
C1000	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1001	EEEHB0J470R		1	
C1002	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1003	EEEHB0G221P	C 220PF, J, 4V	1	
C1004	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1005	EEEHB1C470P	C 47PF, J, 16V	1	
C1006	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1007	EEEHB0G101R	C 100PF, J, 4V	1	
C1008	EEEHB1C470P	C 47PF, J, 16V	1	
C1009	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1010	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1013	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1014	EEEHB0J101P	C 100PF, J, 6.3V	1	
C1016,17	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C1018	EEEHB0J470R	C 47PF, J, 6.3V	1	
C1019	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1020	EEEHB1H4R7R	C 4.7PF, J, 50V	1	
C1021	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1022	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026
C1023	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1024	EEEHB0J101P	C 100PF, J, 6.3V	1	
C1025	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C1027	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1028	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1029,30	ECJ2XC1H330J	C 33PF, J, 50V	2	
C1031	ECJ2XB1H563K	C 0.056UF, K, 50V	1	
C1032	EEEHB0G101R	C 100PF, J, 4V	1	
C1033	ECJ1VF1H104Z	C 0.1UF, Z, 50V	1	
C1034	EEEHB0J101P	C 100PF, J, 6.3V	1	
C1035	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1036	EEEHB0G221P	C 220PF, J, 4V	1	
C1037	EEEHP1C100R	C 10PF, J, 16V	1	
C1038-40	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C1041	EEEHB1C470P	C 47PF, J, 16V	1	
C1042	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1044	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1045	ECJ1XC1H151J	C 150PF, J, 50V	1	
C1046	EEEHB1C100R	C 10PF, J, 16V	1	
C1047	EEEHB0G221P	C 220PF, J, 4V	1	
C1048-50	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C1051	EEEHB0G101R	C 100PF, J, 4V	1	
C1052	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1053	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1054	EEEHB0G221P	C 220PF, J, 4V	1	
C1055	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1056	ECJ1XC1H221J	C 220PF, J, 50V	1	
C1057,58	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C1059	ECJ1XC1H221J	C 220PF, J, 50V	1	
C1060	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1062	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1063	ECJ1XC1H220J	C 22PF, J, 50V	1	
C1064	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1065	ECJ1XC1H220J	C 22PF, J, 50V	1	
C1066	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1068-73	ECJ1XF1C104Z	C 0.1UF, Z, 16V	6	
C1075	ECJ2XC1H101J	C 100PF, J, 50V	1	
C1076	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1077	EEEHB1C100R	C 10PF, J, 16V	1	
C1078	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1080	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1081	EEEHB0G101R	C 100PF, J, 4V	1	
C1082-84	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C1086-89	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C1091,92	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C1093	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1202	ECJ1XC1H221J	C 220PF, J, 50V	1	
C1203	ECJ1XC1H101J	C 100PF, J, 50V	1	
C1204	ECJ1XC1H221J	C 220PF, J, 50V	1	
C1205	ECJ1XC1H101J	C 100PF, J, 50V	1	
C1206,07	ECJ1XC1H221J	C 220PF, J, 50V	2	
C1208	ECJ1XC1H101J	C 100PF, J, 50V	1	
C1231	EEEHB0J101P	C 100PF, J, 6.3V	1	
C1234	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1235,36	ECJ1XC1H271J	C 270PF, J, 50V	2	
C1238,39	ECJ1XC1H101J	C 100PF, J, 50V	2	
C1254	ECJ1XC1H101J	C 100PF, J, 50V	1	
C1270	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1274	EEEHB1C470P	C 47PF, J, 16V	1	
C1275-81	ECJ2VF1C105Z	C 1UF, Z, 16V	7	
C1301,02	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C1306	EEEHB1C470P	C 47PF, J, 16V	1	
C1308	EEEHB1C470P	C 47PF, J, 16V	1	
C1309-12	EEEHB0J470R	C 47PF, J, 6.3V	4	
C1317	EEEHB0G101R	C 100PF, J, 4V	1	
C1318,19	EEEHB1C470P	C 47PF, J, 16V	2	
C1320	EEEHB0G101R	C 100PF, J, 4V	1	
C1324	EEEHB1E330P	C 33PF, J, 25V	1	
C1325	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1326,27	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C1329	EEEHB1H1R0R	C 1.0PF, J, 50V	1	
C1332,33	EEEHB0G101R	C 100PF, J, 4V	2	
C1334	EEEHB0G221P	C 220PF, J, 4V	1	
C1338	EEEHB0G101R	C 100PF, J, 4V	1	
C1339	EEEHB0G221P	C 220PF, J, 4V	1	
C1340,41	EEEHB1C100R	C 10PF, J, 16V	2	
C1342-44	EEEHB0G101R	C 100PF, J, 4V	3	
C1345	EEEHB0G221P	C 220PF, J, 4V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1348	EEEHB0J470R		1	
C1350	EEEHB0G101R	C 100PF, J, 4V	1	
C1351	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1352,53	EEEHB0G221P	C 220PF, J, 4V	2	
C1354	EEEHB0J470R		1	
C1355	EEEHB0G101R	C 100PF, J, 4V	1	
C1356	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1357	EEEHB0G101R	C 100PF, J, 4V	1	
C1358,59	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1360	EEEHB1C100R	C 10PF, J, 16V	1	
C1361	EEEHB0G101R	C 100PF, J, 4V	1	
C1362	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1363	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1365	ECJ1VB1C103K	C 0.01UF, K, 16V	1	
C1366,67	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1368	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1369	ECJ1XB0J105K	C 1UF, K, 16V	1	
C1370	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1371	ECJ1XC1H150J	C 15PF, J, 50V	1	
C1375	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1378,79	ECJ1XC1H680J	C 68PF, J, 50V	2	
C1383	ECJ1XC1H150J	C 15PF, J, 50V	1	
C1389,90	ECJ1XC1H470J	C 47PF, J, 50V	2	
C1393	ECJ1XC1H220J	C 22PF, J, 50V	1	
C1395	ECJ1XC1H220J	C 22PF, J, 50V	1	
C1398	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1402,03	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1404,05	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C1408,09	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1416	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1417	ECJ3YB0J335K	C 33UF, J, 25V	1	
C1418	ECJ1XC1H680J	C 68PF, J, 50V	1	
C1419,20	ECJ1XC1H100D	C 10PF, D, 50V	2	
C1421,22	ECJ1XC1H180J	C 18PF, J, 50V	2	
C1424	ECJ1XC1H330J	C 33PF, J, 50V	1	
C1425	ECJ1XC1H101J	C 100PF, J, 50V	1	
C1426	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1427	ECJ1XC1H101J	C 100PF, J, 50V	1	
C1428	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1429,30	ECJ1XC1H180J	C 18PF, J, 50V	2	
C1431,32	ECJ1XC1H101J	C 100PF, J, 50V	2	
C1433,34	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1437	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1438-40	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C1441	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1442	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1444-49	ECJ1VF1A105Z	C 1UF, Z, 10V	6	
C1452,53	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1457	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1464	EEEHB1C470P	C 47PF, J, 16V	1	
C1466	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1467	ECJ1XC1H820J	C 82PF, J, 50V	1	
C1468	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1471	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1476	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1479	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1482,83	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1489	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1496	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1501	ECJ1XC1H150J	C 15PF, J, 50V	1	
C1502	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1505	ECJ1XC1H180J	C 18PF, J, 50V	1	
C1510	ECJ1XC1H470J	C 47PF, J, 50V	1	
C1512	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1514-23	ECJ1VF1A105Z	C 1UF, Z, 10V	10	
C1525-27	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C1528,29	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C1530	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1531	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1533,34	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1535	ECJ1XC1H470J	C 47PF, J, 50V	1	
C1536	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1537,38	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1539,40	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C1541	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1542	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1543	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1545	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1546,47	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1549-53	ECJ1VF1A105Z	C 1UF, Z, 10V	5	
C1554	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1555	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1557	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1559	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1561-63	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C1565-70	ECJ1VF1A105Z	C 1UF, Z, 10V	6	
C1572-74	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C1581	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C1584	EEEHB0G221P	C 220PF, J, 4V	1	
C1587	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1589	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1590,91	ECJ1XC1H680J	C 68PF, J, 50V	2	
C1592	ECJ1VB1C103K	C 0.01UF, K, 16V	1	
C1593,94	ECJ1XC1H330J	C 33PF, J, 50V	2	
C1595	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1597	ECJ1VB1C103K	C 0.01UF, K, 16V	1	
C1598,99	ECJ1VB1H103K	C 0.01UF, K, 50V	2	
C1601	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1603	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1605	EEEHB1C470P	C 47PF, J, 16V	1	
C1609	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1610	ECJ1VB1C103K	C 0.01UF, K, 16V	1	
C1613	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1614	ECJ1XC1H680J	C 68PF, J, 50V	1	
C1615	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1616	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1618-23	ECJ1VF1A105Z	C 1UF, Z, 10V	6	
C1625	ECJ1XC1H330J	C 33PF, J, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1626	EEEHB1H1R0R	C 1.0PF, J, 50V	1	
C1628-30	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C1631	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1632,33	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1634,35	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C1636-40	ECJ1VF1A105Z	C 1UF, Z, 10V	5	
C1641	ECJ1VB1C103K	C 0.01UF, K, 16V	1	
C1642-51	ECJ1VF1A105Z	C 1UF, Z, 10V	10	
C1652	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1653	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1654	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1655	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1656	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1657	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1658	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1659	EEEHB1H1R0R	C 1.0PF, J, 50V	1	
C1660-74	ECJ1VF1A105Z	C 1UF, Z, 10V	15	
C1675	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1677-79	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C1680	ECJ1VB1C103K	C 0.01UF, K, 16V	1	
C1681	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1682	EEEHB0G101R	C 100PF, J, 4V	1	
C1691-00	ECJ1VF1H103Z	C 0.01UF, Z, 50V	10	
C1705-11	ECJ1VF1H103Z	C 0.01UF, Z, 50V	7	
C1712	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1713	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1717-19	ECJ1VF1H103Z	C 0.01UF, Z, 50V	3	
C1725	ECJ1XB0J105K	C 1UF, K, 16V	1	
C1727	ECJ1XB0J105K	C 1UF, K, 16V	1	
C1728	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1729	EEEHP1C100R	C 10PF, J, 16V	1	
C1730	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1731,32	ECJ1XB0J105K	C 1UF, K, 16V	2	
C1733	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1734	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1735	EEEHP1C100R	C 10PF, J, 16V	1	
C1736	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1737	EEEHP1C100R	C 10PF, J, 16V	1	
C1738	ECJ1XB0J105K	C 1UF, K, 16V	1	
C1739	EEEHP1C100R	C 10PF, J, 16V	1	
C1740	EEEHP1E220P	C 22PF	1	
C1741	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C1742	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1743	EEEHP1C100R	C 10PF, J, 16V	1	
C1744	EEEHB1C470P	C 47PF, J, 16V	1	
C1745	ECJ1XB0J105K	C 1UF, K, 16V	1	
C1747	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1750	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1751	ECJ1XC1H101J	C 100PF, J, 50V	1	
C1753	ECJ1XC1H220J	C 22PF, J, 50V	1	
C1755	ECJ1XC1H390J	C 39PF, J, 50V	1	
C1757	ECJ1XC1H150J	C 15PF, J, 50V	1	
C1758	ECJ1VC1H080C	C 8PF, C, 50V	1	
C1760	ECJ1VF1A105Z	C 1UF, Z, 10V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1761	ECJ1XC1H470J	C 47PF, J, 50V	1	
C1762,63	ECJ1XB0J105K	C 1UF, K, 16V	2	
C1765	ECJ1XC1H330J	C 33PF, J, 50V	1	
C1766	ECJ1XC1H101J	C 100PF, J, 50V	1	
C1767	ECJ1XC1H330J	C 33PF, J, 50V	1	
C1771	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1772	ECJ1XC1H390J	C 39PF, J, 50V	1	
C1773	ECJ1XC1H150J	C 15PF, J, 50V	1	
C1774	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C1775	EEEHP1E220P	C 22PF	1	
C1776,77	ECJ1XB0J105K	C 1UF, K, 16V	2	
C1780	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1781	EEEHB1C470P	C 47PF, J, 16V	1	
C1807-14	ECJ1VF1H103Z	C 0.01UF, Z, 50V	8	
C1816	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1817-20	ECJ1VF1H103Z	C 0.01UF, Z, 50V	4	
C1827,28	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C1829,30	ECJ1VC1H560J	C 56PF, J, 50V	2	
C1831	ECJ1XC1H151J	C 150PF, J, 50V	1	
C1832	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1833	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C1834	ECJ1XC1H101J	C 100PF, J, 50V	1	
C1835,36	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C1837,38	ECJ1VC1H560J	C 56PF, J, 50V	2	
C1839	ECJ1XC1H151J	C 150PF, J, 50V	1	
C1840	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1841	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C1842	ECJ1XC1H101J	C 100PF, J, 50V	1	
C1843,44	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C1845,46	ECJ1VC1H560J	C 56PF, J, 50V	2	
C1847	ECJ1XC1H151J	C 150PF, J, 50V	1	
C1848	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1849	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C1850	ECJ1VB1C103K	C 0.01UF, K, 16V	1	
C1851	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1852	EEEHB0J470R		1	
C1853	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1854	EEEHB1C470P	C 47PF, J, 16V	1	
C1855	ECJ1VF1H104Z	C 0.1UF, Z, 50V	1	
C1856	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1857	EEEHB0G101R	C 100PF, J, 4V	1	
C1858	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1859	ECJ1XC1H101J	C 100PF, J, 50V	1	
C1860-62	ECJ1VF1H103Z	C 0.01UF, Z, 50V	3	
C1863	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1864	EEEHB0G101R	C 100PF, J, 4V	1	
C1865,66	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C1867,68	EEEHB0G101R	C 100PF, J, 4V	2	
C1869	ECJ1VF1H104Z	C 0.1UF, Z, 50V	1	
C1870	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1872,73	EEEHB0G101R	C 100PF, J, 4V	2	
C1874,75	EEFCD0G560R	56UF,	2	
C1876	ECJ1XC1H471J	C 470PF, J, 50V	1	
C1877	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1878	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C1881	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1883	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1884	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1885	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1886	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026
C1887	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C1888	ECJ3YB1A475K	C 0.047UF, K, 10V	1	
C1889	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C1890	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C1891	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1892	ECJ3VB1C474K	C 0.47UF, K, 16V	1	
C1893,94	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C1895-97	ECJ1VF1H104Z	C 0.1UF, Z, 50V	3	
C1898	EEEHB1C470P	C 47PF, J, 16V	1	
C1899,00	ECJ1VF1H104Z	C 0.1UF, Z, 50V	2	
C1901,02	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C1905-14	ECJ1XB1H102K	C 1000UF, Z, 50V	10	
C1915-17	ECJ1VF1H103Z	C 0.01UF, Z, 50V	3	
C1919,20	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C1921	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1922	ECJ3YB0J335K	C 33UF, J, 25V	1	
C1923-26	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C1927	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C1928	ECJ2XC1H101J	C 100PF, J, 50V	1	
C1929	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C1930,31	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C1932	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C1933	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1934	EEEHB1C470P	C 47PF, J, 16V	1	
C1935	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1936	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1937-39	EEEHB1A471P	C 470PF, J, 10V	3	
C1951-53	ECJ3XB0J106M	C 10UF, M,6.3V	3	
D1000	MA152K	DIODE	1	MA3X152K
D1002	MA152K	DIODE	1	MA3X152K
D1003	MA3033L	ZENER DIODE	1	MAZ30330L
D1004	MA111	DIODE	1	MA2J111
D1006	MA152K	DIODE	1	MA3X152K
D1007	MA3047M	ZENER DIODE	1	MAZ30470M
D1009	MA152K	DIODE	1	MA3X152K
D1011	MA3062M	ZENER DIODE	1	MAZ30620M
D1227,28	MA111	DIODE	2	MA2J111
D1231,32	MA111	DIODE	2	MA2J111
D1234	MA111	DIODE	1	MA2J111
D1300,01	MA152K	DIODE	2	MA3X152K
D1302	MA3033L	ZENER DIODE	1	MAZ30330L
D1488	MA152K	DIODE	1	MA3X152K
D1490	MA111	DIODE	1	MA2J111
D1850-52	MA3140M	ZENER DIODE	3	MAZ31400M
D1853-56	MA3150M	ZENER DIODE	4	MAZ31500M
D1857,58	MA111	DIODE	2	MA2J111

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
DG1	K1KA68B00029	68P CONNECTOR	1	
DG2	K1KA40B00062	40P CONNECTOR	1	
DG3	K1KA30B00054	30P CONNECTOR	1	
DG6	K1KA20B00103	20P CONNECTOR	1	
DG7	TJSF18228	28P CONNECTOR	1	K1MN28A00023
DG8	K1KA20B00125	20P CONNECTOR	1	
DG12	K1KA09A00077	9P CONNECTOR	1	
DG18	K1KA06A00189	6P CONNECTOR	1	
DG30	K1KA10A00317	10P CONNECTOR	1	
DG31	TJS3A9880	8P CONNECTOR	1	K1KA08A00179
DG32	K1KA07A00096	7P CONNECTOR	1	
DL1000,01	ELKE103FA	NOISE FILTER	2	
DL1003	ELKE103FA	NOISE FILTER	1	
DL1015	ELKE103FA	NOISE FILTER	1	
DL1031,32	ELKE103FA	NOISE FILTER	2	
DL1046	ELKE103FA	NOISE FILTER	1	
DL1048	ELKE103FA	NOISE FILTER	1	
DL1051	ELKE103FA	NOISE FILTER	1	
DL1064	ELKE103FA	NOISE FILTER	1	
DL1072-74	ELKE103FA	NOISE FILTER	3	
DL1090,91	ELKE103FA	NOISE FILTER	2	
IC1001	MC14052BF	MOS IC (CMOS GATE ARRLY)	1	C0JBAR000021
IC1002	C2BBFE000138	IC	1	
IC1003	PQ07VZ012ZP	IC	1	C0DBEZG00004
IC1004	M51957BFP	LINEAR IC	1	C0EBB0000024
IC1005	C0CBCBF00001	IC	1	
IC1006	TC4066BF	MOS IC	1	C0JBAS000085
IC1007	C2CBYF000028	IC	1	
IC1008	TVRJ958-2	IC	1	TH-42PA20E
IC1008	TVRJ960-2	IC	1	TH-42PA20B
IC1009	C0JBAZ001839	IC	1	
IC1010	PST9128NR	IC (LOGIC)	1	C0EBE0000066
IC1011	C0JBAE000231	IC	1	
IC1012	C3ABPG000102	IC	1	
IC1013	TVRJ926-2	8M FLASH MEMORY (3.3V TS	1	
IC1014	C0JBAB000553	IC	1	
IC1235	C0ZBZ0000800	IC	1	
IC1270	AN15851A	IC	1	
IC1301	C1AB00001826	IC	1	
IC1302	C1AB00001703	IC	1	
IC1303	C0JBAS000061	IC	1	
IC1304	C1AB00001707	IC	1	
IC1305	M52055FP	LINEAR IC	1	C1AB00000734
IC1306	PQ07VZ012ZP	IC	1	C0DBEZG00004
IC1308	C3ABPJ000017	IC	1	
IC1309	AN15935A-VF	IC	1	
IC1311	C0CBCAD00012	IC	1	
IC1313	TC7WU04FU	IC	1	C0JBAB000339
IC1315	C0CBCAD00012	IC	1	
IC1319	C0CBCAD00012	IC	1	
IC1321	C3ABPJ000048	IC	1	
IC1322	C0CBCAD00012	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC1323	AN78L09M	LINEAR IC *	1	
IC1324	C0CBCAD00012	IC	1	
IC1325	C0CBCBD00008	IC	1	
IC1329	C0JBAZ001488	IC	1	
IC1331	C3ABPJ000048	IC	1	
IC1332,33	C0CBCBD00006	IC	2	
IC1350	C1AB00001827	IC	1	
IC1750	C0JBAS000061	IC	1	
IC1800	C0JBAZ001488	IC	1	
IC1851	C1AB00001834	IC	1	
IC1853	C0CBCBD00008	IC	1	
IC3003	CXA1315M	LINEAR IC	1	C1AB00000440
IC3004	CXA1875AM	LINEAR IC	1	C0FBBD000017
IC3251	C1AB00001720	IC	1	
IC3517	AHC2G66HDCTR	INTEGRATED CIRCUIT	1	C0JBAS000109
IC3699	TVRJ969	IC	1	TH-42PA20E
IC3699	TVRJ971	IC	1	TH-42PA20B
IC8002	MC14052BF	MOS IC (CMOS GATE ARRLY)	1	C0JBAR000021
IC8004	M52346SP	LINEAR IC	1	C1AA00000395
IC8006	TC74HC14AF	IC	1	C0JBAB000155
IC8008	TC4W53FEL	IC	1	C0JBAR000111
IC8009	AHC2G66HDCTR	INTEGRATED CIRCUIT	1	C0JBAS000109
JS007-09	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
JS011-23	ERJ6GEY0R00	M 0 OHM, 1/10W	13	
JS025-32	ERJ6GEY0R00	M 0 OHM, 1/10W	8	
JS034-37	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
JS039-41	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
JS043-48	ERJ6GEY0R00	M 0 OHM, 1/10W	6	
JS052-54	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
JS056-66	ERJ6GEY0R00	M 0 OHM, 1/10W	11	
JS068	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS070-74	ERJ6GEY0R00	M 0 OHM, 1/10W	5	
JS081	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS089-91	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
JS100	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS102-05	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
JS108,09	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
JS110-32	ERJ3GEY0R00	M 0 OHM, 1/16W	23	
JS135-43	ERJ3GEY0R00	M 0 OHM, 1/16W	9	
JS144-49	ERJ6GEY0R00	M 0 OHM, 1/10W	6	
JS150-52	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
JS155-58	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
JS161,62	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
JS164	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS166	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS168-70	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
JS172-75	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
JS176-79	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
JS182	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS185	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS186	ERJ8GEY0R00	M 0 OHM, 1/8W	1	
JS192	ERJ8GEY0R00	M 0 OHM, 1/8W	1	
JS195	ERJ6GEY0R00	M 0 OHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
JS1850	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
L1000	ELJPA100KB	CHIP INDUCTOR	1	
L1003	TALC325T3R3M	CHIP INDUCTOR COIL	1	G1C3R3MA0063
L1004-06	TALC325T4R7M	CHIP INDUCTOR COIL	3	G1C4R7MA0063
L1008,09	TALC325T4R7M	CHIP INDUCTOR COIL	2	G1C4R7MA0063
L1270	J0JCC0000241	CHIP INDUCTOR	1	
L1301	G1C2R2K00006	INDUCTION COIL	1	
L1302,03	TALC168T100K	CHIP INDUCTOR COIL	2	G1C100KA0009
L1307	TALC168T5R6K	CHIP INDUCTOR COIL	1	G1C5R6K00007
L1309-16	TALC325T4R7M	CHIP INDUCTOR COIL	8	G1C4R7MA0063
L1317,18	TALC168T3R3K	CHIP INDUCTOR COIL	2	G1C3R3K00007
L1319,20	TALC168T6R8K	CHIP INDUCTOR COIL	2	G1C6R8K00005
L1328	G1C100KA0008	INDUCTOR COIL	1	
L1331	TALC325T4R7M	CHIP INDUCTOR COIL	1	G1C4R7MA0063
L1333-42	TALC325T4R7M	CHIP INDUCTOR COIL	10	G1C4R7MA0063
L1350	J0JGC0000021	CHIP INDUCTOR COIL	1	
L1352	G1C100KA0008	INDUCTOR COIL	1	
L1360-62	J0JGC0000021	CHIP INDUCTOR COIL	3	
L1366,67	J0JGC0000021	CHIP INDUCTOR COIL	2	
L1600	ELJPA100KB	CHIP INDUCTOR	1	
L1650-52	J0JGC0000021	CHIP INDUCTOR COIL	3	
L1750	TALC168T5R6K	CHIP INDUCTOR COIL	1	G1C5R6K00007
L1751-53	TALC168T1R0K	CHIP INDUCTOR COIL	3	G1C1R0K00005
L1754	TALC168T5R6K	CHIP INDUCTOR COIL	1	G1C5R6K00007
L1755	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
L1801	G1C100KA0008	INDUCTOR COIL	1	
L1805,06	G1C100KA0008	INDUCTOR COIL	2	
L1807-09	TALC168T6R8K	CHIP INDUCTOR COIL	3	G1C6R8K00005
L1825	G1C100KA0008	INDUCTOR COIL	1	
L1850,51	G1C100KA0008	INDUCTOR COIL	2	
L1852-56	ELJPA100KB	CHIP INDUCTOR	5	
Q1000	2SB709A	TRANSISTOR	1	2SB0709A
Q1001,02	2SD601A	TRANSISTOR	2	2SD0601A
Q1004	2SD601A	TRANSISTOR	1	2SD0601A
Q1007	2SD601A	TRANSISTOR	1	2SD0601A
Q1010	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1012-14	2SD601A-R	TRANSISTOR	3	2SD0601AR
Q1016-19	2SD601A-R	TRANSISTOR	4	2SD0601AR
Q1024	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1025,26	2SD601A	TRANSISTOR	2	2SD0601A
Q1225	2SB709A	TRANSISTOR	1	2SB0709A
Q1230	2SB709A	TRANSISTOR	1	2SB0709A
Q1233	2SD601A	TRANSISTOR	1	2SD0601A
Q1254,55	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q1302-04	2SD601A	TRANSISTOR	3	2SD0601A
Q1310	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1311,12	2SD601A	TRANSISTOR	2	2SD0601A
Q1315-17	2SD601A-R	TRANSISTOR	3	2SD0601AR
Q1325,26	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q1327	2SD1030	TRANSISTOR	1	
Q1330	XN6501	TRANSISTOR	1	XN06501
Q1334,35	2SD601A	TRANSISTOR	2	2SD0601A

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q1336,37	2SB709A	TRANSISTOR	2	2SB0709A
Q1340	2SB709A	TRANSISTOR	1	2SB0709A
Q1342,43	2SB709A	TRANSISTOR	2	2SB0709A
Q1351	2SK198R	FET	1	2SK01980R
Q1355	2SB709A	TRANSISTOR	1	2SB0709A
Q1359-61	2SB709A	TRANSISTOR	3	2SB0709A
Q1363	2SB709A	TRANSISTOR	1	2SB0709A
Q1600-02	2SD601A	TRANSISTOR	3	2SD0601A
Q1750-53	2SD601A	TRANSISTOR	4	2SD0601A
Q1754	UN2215	TRANSISTOR	1	UNR2215
Q1755	2SB709A	TRANSISTOR	1	2SB0709A
Q1756	2SD601A	TRANSISTOR	1	2SD0601A
Q1757	XN6501	TRANSISTOR	1	XN06501
Q1758	2SD601A	TRANSISTOR	1	2SD0601A
Q1759	2SB709A	TRANSISTOR	1	2SB0709A
Q1760	2SD601A	TRANSISTOR	1	2SD0601A
Q1761,62	2SB709A	TRANSISTOR	2	2SB0709A
Q1763	2SD601A	TRANSISTOR	1	2SD0601A
Q1764,65	2SD1030	TRANSISTOR	2	
Q1800	UN2215	TRANSISTOR	1	UNR2215
Q1801	2SC2412K	TRANSISTOR	1	
Q1802	2SB709A	TRANSISTOR	1	2SB0709A
Q1804	2SC2412K	TRANSISTOR	1	
Q1811	2SC2412K	TRANSISTOR	1	
Q1812	2SB709A	TRANSISTOR	1	2SB0709A
Q1814	2SC2412K	TRANSISTOR	1	
Q1821	2SC2412K	TRANSISTOR	1	
Q1822	2SB709A	TRANSISTOR	1	2SB0709A
Q1824	2SC2412K	TRANSISTOR	1	
Q1850,51	2SD601A	TRANSISTOR	2	2SD0601A
R1000	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1005	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1013	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R1015	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R1016,17	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1018	ERJ3GEYJ224	M 220KOHM,J,1/16W	1	
R1019	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1022	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R1023	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1025	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1027	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1028	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1030	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1031	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1032	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1033,34	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R1037	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1038,39	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R1040	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1043-48	ERJ3GEYJ103	M 10KOHM,J,1/16W	6	
R1049	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R1051	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R1052,53	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1054	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1055-57	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R1058,59	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1061	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1063	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1065,66	ERJ3EKF3901	M 3.9KOHM, 1/16W	2	
R1067	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1068	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1069	ERJ3GEYJ105	M 1MOHM,J,1/16W	1	
R1070	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1071,72	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R1073	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1075	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1079	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1081	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1082	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1083	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1086	ERJ3GEYJ821	M 820 OHM,J,1/16W	1	
R1090	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1091	ERJ3GEYJ391	M 390 OHM,J,1/16W	1	D0GB391JA002
R1092	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1093	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1095	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1099,00	EXB38V680J	RESISTOR ARRAY	2	
R1101	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1102	EXB38V680J	RESISTOR ARRAY	1	
R1105	ERJ3GEYJ225V	M 2.2MOHM,J,1/16W	1	
R1107	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1108-11	TAJAAH0101JV	M 100 OHM,J,1/16W	4	D0GB101JA006
R1112	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1114	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1115	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1117	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1119	ERJ3GEYJ563	M 56KOHM,J,1/16W	1	
R1124	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1125	EXB38V680J	RESISTOR ARRAY	1	
R1126	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R1127	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1128	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1129	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1130	EXB38V680J	RESISTOR ARRAY	1	
R1131	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R1132	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1133	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R1134	EXB38V680J	RESISTOR ARRAY	1	
R1135	ERJ3GEYJ224	M 220KOHM,J,1/16W	1	
R1136	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1137	EXB38V680J	RESISTOR ARRAY	1	
R1138	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1139	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R1140	EXB38V680J	RESISTOR ARRAY	1	
R1141	ERJ3GEYJ820	M 82 OHM,J,1/16W	1	
R1142	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1143	ERJ3GEY0R00	M 0 OHM, 1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1145,46	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R1147	EXB38V680J	RESISTOR ARRAY	1	
R1148-51	TAJAAH0101JV	M 100 OHM,J,1/16W	4	D0GB101JA006
R1152	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1153-55	TAJAAH0101JV	M 100 OHM,J,1/16W	3	D0GB101JA006
R1156	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1157	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1158,59	EXB38V680J	RESISTOR ARRAY	2	
R1160	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1161	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R1162-67	TAJAAH0101JV	M 100 OHM,J,1/16W	6	D0GB101JA006
R1169	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1170,71	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R1172	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1174-76	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	3	
R1177	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1178	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1179	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1180	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1181	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1182,83	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R1184	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1185	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R1186	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1187	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1188-90	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R1192,93	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R1195-97	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R1202,03	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R1207	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1208-10	ERJ3GEYJ820	M 82 OHM,J,1/16W	3	
R1213	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1214	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R1215	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1222	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1224	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1225,26	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R1227	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1228	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1229	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1230	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1231	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1232	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1233	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1234	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1235,36	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R1237	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1249	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R1254	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R1255	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1256	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R1257	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1258	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1259,60	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1270-73	TAJAAH0101JV	M 100 OHM,J,1/16W	4	D0GB101JA006
R1276	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1278,79	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R1280,81	TAJAAH0470JV	M 47 OHM,J,1/16W	2	D0GB470JA006
R1282-84	TAJAAH0101JV	M 100 OHM,J,1/16W	3	D0GB101JA006
R1285	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1286,87	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R1301	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1303	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1304	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R1305	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1306	ERJ3EKF1800	M 180 OHM, 1/16W	1	
R1307	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1308	ERJ3EKF1800	M 180 OHM, 1/16W	1	
R1310	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R1311,12	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R1313	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1317	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1318	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1319	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1320	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1321	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R1322	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1323	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1324	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1325	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1326	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1328	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1330	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1332	ERJ3EKF4700	M 470 OHM, 1/16W	1	
R1333,34	ERJ3EKF2700	M 270 OHM, 1/16W	2	
R1338,39	ERJ3EKF1200	M 120 OHM, 1/16W	2	
R1344,45	ERJ3EKF6801	M 6.8KOHM, 1/16W	2	
R1348,49	ERJ3GEYJ821	M 820 OHM,J,1/16W	2	
R1353	ERJ3EKF2370	M 237 OHM, 1/16W	1	
R1357	ERJ3EKF1691	M1.69KOHM, 1/16W	1	
R1360	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1366-69	ERJ3GEYJ223	M 22KOHM,J,1/16W	4	
R1370,71	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R1380,81	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1382	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1383,84	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1385	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1386	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1387	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1388	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R1389	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1390	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R1391	ERJ3EKF2400	M 240 OHM, 1/16W	1	
R1392	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1393	ERJ3EKF2400	M 240 OHM, 1/16W	1	
R1394	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1395	ERJ3GEYJ121	M 120 OHM,J,1/16W	1	
R1396	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1397	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R1398	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1399,00	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R1401	ERJ3EKF2200	M 220 OHM, 1/16W	1	
R1402	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R1403	ERJ3EKF2200	M 220 OHM, 1/16W	1	
R1406	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R1407	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1408	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R1409	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1410	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R1411	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R1412	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1413	ERJ3EKF2550	M 255 OHM, 1/16W	1	
R1414	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R1415	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R1416	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R1417	ERJ3EKF1800	M 180 OHM, 1/16W	1	
R1418	ERJ3EKF43R0	M 43 OHM, 1/16W	1	
R1419	ERJ3EKF1020	M 102 OHM, 1/16W	1	
R1420,21	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R1422	ERJ3EKF47R0	M 47 OHM, 1/16W	1	
R1423,24	ERJ3EKF3901	M 3.9KOHM, 1/16W	2	
R1435	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1439	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1443	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1446	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1447	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1459	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R1461	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1464	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1467	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1468,69	ERJ3GEYJ333	M 33KOHM,J,1/16W	2	
R1470	ERJ3GEYJ823	M 82KOHM,J,1/16W	1	
R1472	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R1474	ERJ3GEYJ105	M 1MOHM,J,1/16W	1	
R1476	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R1477,78	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R1479	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1481	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1484	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1485	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	1	
R1486	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R1487	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1488,89	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R1490	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R1491	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R1492	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R1493	ERJ3EKF33R0	M 33 OHM, 1/16W	1	
R1494	ERJ3EKF1500	M 150 OHM, 1/16W	1	
R1495	ERJ3EKF75R0	M 0.75HM, 1/16W	1	
R1496	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R1497	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R1498	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1499	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R1500	ERJ3EKF33R0	M 33 OHM, 1/16W	1	
R1501	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R1502,03	ERJ3EKF1401	M 1.4KOHM, 1/16W	2	
R1504	ERJ3EKF75R0	M 0.75HM, 1/16W	1	
R1505	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R1507	ERJ3EKF33R0	M 33 OHM, 1/16W	1	
R1509	ERJ3EKF1500	M 150 OHM, 1/16W	1	
R1510	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R1511	ERJ3EKF75R0	M 0.75HM, 1/16W	1	
R1512,13	ERJ3EKF1101	M 1.1KOHM, 1/16W	2	
R1514	ERJ3GEYJ271	M 270 OHM,J,1/16W	1	
R1515	ERJ3EKF33R0	M 33 OHM, 1/16W	1	
R1516	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1517	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R1518	ERJ3EKF33R0	M 33 OHM, 1/16W	1	
R1519	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R1520	ERJ3EKF1500	M 150 OHM, 1/16W	1	
R1521	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R1522	ERJ3EKF33R0	M 33 OHM, 1/16W	1	
R1526	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1528	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1529	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1531	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1532,33	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1534	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1535	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1536	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1537	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1539	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1540,41	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R1545	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R1546,47	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R1548	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R1549,50	ERJ3GEYJ121	M 120 OHM,J,1/16W	2	
R1551,52	ERJ3GEYJ162	M 1.6KOHM,J,1/16W	2	
R1553	ERJ3GEYJ242	M 2.4KOHM,J,1/16W	1	
R1554,55	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	2	
R1557-59	ERJ3GEYJ121	M 120 OHM,J,1/16W	3	
R1562,63	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R1570	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R1573-76	ERJ3GEYJ471	M 470 OHM,J,1/16W	4	
R1578,79	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1604,05	ERJ3GEYJ471	M 470 OHM,J,1/16W	2	
R1606-08	ERJ3EKF33R0	M 33 OHM, 1/16W	3	
R1609-11	ERJ3EKF1500	M 150 OHM, 1/16W	3	
R1612-14	ERJ3EKF33R0	M 33 OHM, 1/16W	3	
R1615	ERJ3EKF2200	M 220 OHM, 1/16W	1	
R1623,24	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R1626	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R1627	ERJ3EKF1001	M 1KOHM, 1/16W	1	
R1628	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R1629	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1630	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1634	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1635	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1639	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1647	ERJ6GEYJ271	M 270 OHM,J,1/10W	1	
R1649,50	ERJ6GEYJ271	M 270 OHM,J,1/10W	2	
R1652,53	EXB38VR000	RESISTOR ARRAY	2	
R1654-61	EXB38V820J	RESISTOR ARRAY	8	
R1662,63	EXB38VR000	RESISTOR ARRAY	2	
R1664	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1665-68	ERJ3GEYJ221	M 220 OHM,J,1/16W	4	
R1669,70	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1672-79	EXB38V820J	RESISTOR ARRAY	8	
R1680	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1681	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1682	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1683-85	ERJ6GEYJ391	M 390 OHM,J,1/10W	3	
R1686	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1687-89	ERJ6GEYJ121	M 120 OHM,J,1/10W	3	
R1694	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1700,01	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R1702	ERJ3GEYJ821	M 820 OHM,J,1/16W	1	
R1703	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R1704	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1705	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1706	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1707	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1708,09	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1710-13	EXB38V221J	RESISTOR ARRAY	4	
R1714-17	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R1719	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1721	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1722	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R1723	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1724	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1728,29	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R1731,32	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R1734-36	ERJ3GEYJ331	M 330 OHM,J,1/16W	3	
R1737	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1739	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1741-44	ERJ3GEYJ220	M 22 OHM,J,1/16W	4	
R1745	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1746-48	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R1750	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1751	ERJ3EKF4300	M 430 OHM, 1/16W	1	
R1752	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1753	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R1755	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1756	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R1757	ERJ3EKF1200	M 120 OHM, 1/16W	1	
R1758	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1759	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1760	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R1761	ERJ3EKF1800	M 180 OHM, 1/16W	1	
R1762	ERJ3EKF1500	M 150 OHM, 1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1765	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1766	ERJ3EKF1500	M 150 OHM, 1/16W	1	
R1767	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1768	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1769	ERJ3EKF4701	M 4.7KOHM, 1/16W	1	
R1770	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1771	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1772	ERJ3GEYJ821	M 820 OHM,J,1/16W	1	
R1773	ERJ3EKF39R0	M 39 OHM, 1/16W	1	
R1774	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1775	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R1776	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1777	ERJ3EKF1200	M 120 OHM, 1/16W	1	
R1778	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1779	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1780	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1781	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R1782	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1783	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1784	ERJ3EKF1800	M 180 OHM, 1/16W	1	
R1785	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1787	ERJ3EKF20R0	M 20 OHM, 1/16W	1	
R1790	ERJ3EKF2201	M 2.2KOHM, 1/16W	1	
R1791	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R1792	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R1793	ERJ3EKF1500	M 150 OHM, 1/16W	1	
R1794	ERJ3EKF4701	M 4.7KOHM, 1/16W	1	
R1795	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1796	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R1797	ERJ3GEYJ821	M 820 OHM,J,1/16W	1	
R1798	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R1799	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1800	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1801,02	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	
R1803	ERJ3EKF2200	M 220 OHM, 1/16W	1	
R1805	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1806	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1807	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R1808	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1809	ERJ3EKF2700	M 270 OHM, 1/16W	1	
R1810	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1811,12	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	
R1813	ERJ3EKF2200	M 220 OHM, 1/16W	1	
R1815	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1816	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1817	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R1818	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1819	ERJ3EKF2700	M 270 OHM, 1/16W	1	
R1820	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1821,22	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	
R1823	ERJ3EKF2200	M 220 OHM, 1/16W	1	
R1825	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1826	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1827	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1828	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1829	ERJ3EKF2700	M 270 OHM, 1/16W	1	
R1830	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1832	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1833	ERJ6ENF68R0	M 68 OHM, 1/10W	1	
R1834	ERJ6ENF82R0	M 82 OHM, 1/10W	1	
R1835	ERJ6ENF68R0	M 68 OHM, 1/10W	1	
R1836	ERJ6ENF82R0	M 82 OHM, 1/10W	1	
R1837-39	ERJ3GEYJ220	M 22 OHM,J,1/16W	3	
R1842,43	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1844,45	ERJ6ENF51R0	M0.51KOHM, 1/10W	2	
R1846	ERJ6ENF82R0	M 82 OHM, 1/10W	1	
R1847	ERJ6ENF68R0	M 68 OHM, 1/10W	1	
R1850,51	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1852	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1853	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1854	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1855	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1856,57	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1858-60	ERJ3GEYJ331	M 330 OHM,J,1/16W	3	
R1861-63	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R1866-69	ERJ3GEYJ103	M 10KOHM,J,1/16W	4	
R1870,71	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R1872	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1875	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1877	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1878,79	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	
R1882	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R1883	ERJ3GEYJ271	M 270 OHM,J,1/16W	1	
R1884	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1885	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R1886,87	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	2	
R1888	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1889	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1890	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R1892	ERJ3EKF1501	M 1.5KOHM, 1/16W	1	
R1893	ERJ3EKF4701	M 4.7KOHM, 1/16W	1	
R1896	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1899	ERJ3EKF3301	M 3.3KOHM, 1/16W	1	
R1901	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1902	ERJ3EKF2201	M 2.2KOHM, 1/16W	1	
R1903	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R1904	ERJ3EKF8200	M 820 OHM, 1/16W	1	
R1905-08	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R1909	ERJ3EKF4701	M 4.7KOHM, 1/16W	1	
R1910-33	ERJ3GEYJ820	M 82 OHM,J,1/16W	24	
R1934	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1935	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1936	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1937	ERJ3EKF4701	M 4.7KOHM, 1/16W	1	
R1938	ERJ6GEYJ183	M 18KOHM,J,1/10W	1	
R1939	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R1940	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1941	EXB38V820J	RESISTOR ARRAY	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1942	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1943	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1944	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R1945	EXB38V820J	RESISTOR ARRAY	1	
R1946-48	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	3	
R1949	EXB38V820J	RESISTOR ARRAY	1	
R1952	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R1953	EXB38V820J	RESISTOR ARRAY	1	
R1954	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R1955,56	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R1957	EXB38V820J	RESISTOR ARRAY	1	
R1958,59	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R1960	ERJ3GEYJ820	M 82 OHM,J,1/16W	1	
R1961	EXB38V820J	RESISTOR ARRAY	1	
R1963,64	ERJ3GEYJ330	M 33 OHM,J,1/16W	2	
R1965	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1966,67	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	2	
R1968-70	ERJ3EKF75R0	M 0.75HM, 1/16W	3	
R1971	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R1972-74	ERJ3GEYJ102	M 1KOHM,J,1/16W	3	
R1975,76	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R1990	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1991-94	ERJ3GEYJ102	M 1KOHM,J,1/16W	4	
R1996	ERJ6ENF1020	M 105 OHM, 1/10W	1	
R1997	ERJ6ENF1500	M 150 OHM, 1/10W	1	
R1998,99	ERJ6ENF1020	M 105 OHM, 1/10W	2	
X1000	H0J921400003	CRYSTAL	1	
X1001	H0J600400006	CRYSTAL	1	
X1301	H0J202500002	CRYSTAL	1	
ZA1000	K4ZZ01000121	EARTH LUG	1	
ZA1002-05	K4ZZ01000121	EARTH LUG	4	
C002	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C2003,04	ECJ2XB1H102K	C 1000PF, K, 50V	2	
C2006	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2007,08	ECEA1HN100U	E 10UF, 50V	2	
C2009	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2010	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2011	ECA1EM471	E 470UF, 25V	1	
C2012	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2014,15	ECEA1HN100U	E 10UF, 50V	2	
C2016	ECA1HM100	E 10UF, 50V	1	
C2017	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2018	ECA1HM100	E 10UF, 50V	1	
C2019	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2021	ECA1HM3R3	E 3.3UF, 50V	1	
C2022,23	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C2024	ECA1HM100	E 10UF, 50V	1	
C2026,27	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C2029,30	ECJ2XC1H030C	C 3PF, C, 50V	2	
C2031,32	ECA1CM101	E 100UF, 16V	2	
C2033	ECJ2XC1H470J	C 47PF, J, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2034	ECA1CM101	E 100UF, 16V	1	
C2035	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2036	ECJ2XC1H470J	C 47PF, J, 50V	1	
C2037	ECJ2XC1H560J	C 56PF, J, 50V	1	
C2038	ECJ2XC1H100C	C 10PF, C, 50V	1	
C2039	ECJ2XC1H220J	C 22UF, J, 50V	1	
C2043	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C2044	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	TH-42PA20E
C2045	ECJ2VB1C104K	C 0.1UF, K, 16V	1	TH-42PA20E
C2045	ERJ6GEY0R00	M 0 OHM, 1/10W	1	ECJ2VB1C104K TH-42PA20B
C2050	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2052	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2056	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	TH-42PA20E
C2058,59	ECJ1XC1H221J	C 220PF, J, 50V	2	
C2201,02	ECA1HM100	E 10UF, 50V	2	
C2203	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2204	ECA1CEN100	E 10UF, 16V	1	
C2205	ECA1CM101	E 100UF, 16V	1	
C2207	ECJ2YB1E224K	C 0.22UF, K, 25V	1	
C2212,13	TCUY1C225KBM	C 2.2UF, 16V	2	F1K1C225A026
C2214,15	ECJ2XB1H102K	C 1000PF, K, 50V	2	
C2222	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2225,26	ECJ2VF1H104Z	C 0.1UF, Z, 50V	2	
C2228	ECJ2XB1A105K	C 1UF, K, 10V	1	
C2238,39	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C2262	ECJ2XB1A105K	C 1UF, K, 10V	1	
C2270	ECA1CM101	E 100UF, 16V	1	
C2271	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2272,73	ECJ2XB1A105K	C 1UF, K, 10V	2	
C2274,75	ECJ1XC1H470J	C 47PF, J, 50V	2	
C2276	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C2286	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C2287,88	ECJ1XC1H470J	C 47PF, J, 50V	2	
C2289	ECA1CM101	E 100UF, 16V	1	
C2290	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2655	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C2656	ECJ1XF1H102Z	C 1000PF, Z, 50V	1	
C2657	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C2658	ECJ1XF1H102Z	C 1000PF, Z, 50V	1	
C2662,63	ECJ1VB1H103K	C 0.01UF, K, 50V	2	
C2664	ECJ1XF1H102Z	C 1000PF, Z, 50V	1	
C2665,66	ECJ1XC1H150J	C 15PF, J, 50V	2	
C2667	ECJ2XB1A105K	C 1UF, K, 10V	1	
C2668	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C2669	ECJ1XF1H102Z	C 1000PF, Z, 50V	1	
C2670	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C2671	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C2672	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2673	ECA1VM470	E 47UF, 35V	1	
C2675-77	ECJ2XB1A105K	C 1UF, K, 10V	3	
C2680	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3100-10	ECJ2XC1H561J	C 560PF, J, 50V	11	
C3111,12	ECJ2XC1H102K	C 1000PF, K, 50V	2	
C3113-15	ECJ2XC1H561J	C 560PF, J, 50V	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3116	ECJ2XC1H102K	C 1000PF, K, 50V	1	
C3120,21	ECA1CEN100	E 10UF, 16V	2	
C3122	ECA1CM101	E 100UF, 16V	1	
C3123,24	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3125	ECA1CM101	E 100UF, 16V	1	
C3126	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C3127,28	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3130	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3131,32	TCUY0J335MBM	C 3.3UF, 6.3V	2	F1K0J335A003
C3133,34	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C3135-40	ECJ2XB1A105K	C 1UF, K, 10V	6	
C3141,42	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C3143	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3170	ECA1VM470	E 47UF, 35V	1	
C3171,72	ECA1HM100	E 10UF, 50V	2	
C3174-76	ECJ2VF1C104Z	C 0.1UF, Z, 16V	3	
C3177	ECA1HM100	E 10UF, 50V	1	
C3181,82	ECJ1XC1H470J	C 47PF, J, 50V	2	
C3194	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3195	ECJ2XB1H562K	C 5600PF, K, 50V	1	
C3196	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3197	ECJ2XB1H562K	C 5600PF, K, 50V	1	
C3198,99	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C3200	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C3201	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3202	ECJ2FF1C475Z	C 0.047UF, Z, 16V	1	
C3203,04	ECJ3XB1C106M	C 1.0UF, K, 16V	2	ECJ3YB1C106M
C3206	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C3207	ECA1CM101	E 100UF, 16V	1	
C3208	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C3209-11	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C3212,13	ECJ3YB1C106M	C 10UF, M,16V	2	
C3214	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C3215	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3216	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3217	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C3218	ECA1CM101	E 100UF, 16V	1	
C3219,20	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3221	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C3222	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3223	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C3224,25	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3226	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C3227	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3228,29	TCUY0J335MBM	C 3.3UF, 6.3V	2	F1K0J335A003
C3230-33	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C3234	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3279,80	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C3282	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C3290,91	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
D2001	MA152K	DIODE	1	MA3X152K
D2003	MA152K	DIODE	1	MA3X152K
D2653	MA152K	DIODE	1	MA3X152K

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D3100-02	MA8140M	ZENER DIODE	3	MAZ81400M
D3105,06	MA4068M	ZENER DIODE	2	MAZ40680M
D3107-09	MA8140M	ZENER DIODE	3	MAZ81400M
D3110	MA3068M	ZENER DIODE	1	MAZ30680M
D3111-16	MA8140M	ZENER DIODE	6	MAZ81400M
D3118-23	MA8140M	ZENER DIODE	6	MAZ81400M
D3140	MA3120M	ZENER DIODE	1	MAZ31200M
D3141-52	MA111	DIODE	12	MA2J111
D3200	MA3120M	ZENER DIODE	1	MAZ31200M
D3210-13	MA8140M	ZENER DIODE	4	MAZ81400M
D3215	MA8140M	ZENER DIODE	1	MAZ81400M
D3219	MA8140M	ZENER DIODE	1	MAZ81400M
D3222	MA8140M	ZENER DIODE	1	MAZ81400M
D3225	MA8140M	ZENER DIODE	1	MAZ81400M
D3232,33	MA8140M	ZENER DIODE	2	MAZ81400M
H1	K1KB68A00024	68P CONNECTOR	1	
H9	K1KA06A00220	6P CONNECTOR	1	
H10	TJS6A9390	24P CONNECTOR	1	K1KA24A00041
IC2001	AN77L08M	IC	1	
IC2002	C1AB00001883	IC	1	
IC2003	C0DBEZE00002	IC	1	
IC2200	AN17880A	IC	1	
IC2206,07	NJM2115M	IC	2	C0ABBB000036
IC2652	C2HBZE000003	IC	1	
IC2653	C0CBCAD00006	IC	1	
IC2654	C0JBAZ001834	IC	1	
IC2670	TC74LCX244F	MOS IC (CMOS S/LOGIC)	1	C0JBAZ001234
IC3100	NJM2283M	IC	1	C1AB00000419
IC3101	NJM2286M	IC	1	C1AB00000948
IC3102	TDA8601T/C1	IC	1	
IC3200	CXA2069Q	LINEAR IC	1	C1AB00000459
IC3290	CXA1315M	LINEAR IC	1	C1AB00000440
JK3100-02	K1FB121A0006	JACK	3	
JK3103	K2HA307A0008	JACK	1	
JK3104	K2HA204A0038	JACK	1	
JS2022	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS2026	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS2032	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS2035	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS2227	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS2651	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS2657,58	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
JS3106-20	ERJ6GEY0R00	M 0 OHM, 1/10W	15	
JS3121	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS3132	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS3200-02	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
JS3280	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS3282	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS3284	ERJ3GEY0R00	M 0 OHM, 1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L2001,02	TSK1032	BEAD CHOKE	2	J0JCC0000100
L2003	EXCELDR35C	BEAD CHOKE	1	
L2006	ELESE6R8KA	PEAKING COIL	1	
L2013	EXCELDR35C	BEAD CHOKE	1	
L2023	TSK1032	BEAD CHOKE	1	J0JCC0000100
L2027-30	EXCELDR35C	BEAD CHOKE	4	
L2031	J0JCC0000241	CHIP INDUCTOR	1	
L2032	TSK1032	BEAD CHOKE	1	J0JCC0000100
L2035	J0JCC0000241	CHIP INDUCTOR	1	
L2038	TSK1032	BEAD CHOKE	1	J0JCC0000100
L2200	ELJPA100KB	CHIP INDUCTOR	1	
L2207	EXCELDR35C	BEAD CHOKE	1	
L2215	EXCELDR35C	BEAD CHOKE	1	
L2220-22	EXC3BB221H	BEAD CHOKE	3	
L2653	J0JCC0000241	CHIP INDUCTOR	1	
L2658	ELESE4R7KA	PEAKING COIL	1	
L3100-16	EXC3BB221H	BEAD CHOKE	17	
L3117	EXCELDR35C	BEAD CHOKE	1	
L3118	ELJPA100KB	CHIP INDUCTOR	1	
L3120	TSKX027	CHOKE COIL	1	G0BYYYG00005
L3200	J0JCC0000241	CHIP INDUCTOR	1	
Q2003,04	2SB709A	TRANSISTOR	2	2SB0709A
Q2006-07	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q2008	2SD601A-R	TRANSISTOR	1	2SD0601AR, TH-42PA20E
Q2012	2SD601A-R	TRANSISTOR	1	2SD0601AR TH-42PA20E
Q2202	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q2203,04	2SB709A	TRANSISTOR	2	2SB0709A
Q3100-07	2SD601A-R	TRANSISTOR	8	2SD0601AR
Q3170-72	2SD601A-R	TRANSISTOR	3	2SD0601AR
Q3196,97	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q3200,01	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q3203-05	2SB709A	TRANSISTOR	3	2SB0709A
Q3206,07	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q3208-11	2SB709A	TRANSISTOR	4	2SB0709A
R2001,02	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R2006,07	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R2009,10	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R2014-17	ERJ3GEYJ221	M 220 OHM,J,1/16W	4	
R2018	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R2021	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	TH-42PA20E
R2022	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R2023	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R2025	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R2026	ERJ6GEYJ681	M 680 OHM,J,1/10W	1	TH-42PA20E
R2026	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	TH-42PA20B
R2027	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R2029	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2030	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R2031	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	TH-42PA20E
R2031	ERJ3GEY0R00	M 0 OHM, 1/16W	1	TH-42PA20B
R2032	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	TH-42PA20E
R2033	ERJ6ENF1781	M1.78KOHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2034	ERJ6ENF1601	M 1.6KOHM, 1/10W	1	
R2046	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R2047,48	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R2049,50	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R2052	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2054	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	TH-42PA20E
R2055	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	TH-42PA20E
R2055	ERJ3GEY0R00	M 0 OHM,1/16W	1	TH-42PA20B
R2058,59	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R2200,01	ERJ3GEYJ473	M 47KOHM,J,1/16W	2	
R2203	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2204,05	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R2206,07	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R2208,09	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R2210,11	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R2220,21	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R2222	ERJ6GEYJ2R2	M 2.2 OHM,J,1/10W	1	
R2225,26	ERJ6GEYJ2R2	M 2.2 OHM,J,1/10W	2	
R2245	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2250,51	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R2253	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R2254	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R2256	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R2257	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R2258	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R2259	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R2260	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R2261	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R2279	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R2282	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R2283	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R2284	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R2286	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2295	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R2296	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R2651-54	TAJAAH0101JV	M 100 OHM,J,1/16W	4	D0GB101JA006
R2655	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2657,58	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R2660	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R2664,65	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R2666	ERJ3GEYJ105	M 1MOHM,J,1/16W	1	
R2667	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R2668	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R2671-74	TAJAAH0101JV	M 100 OHM,J,1/16W	4	D0GB101JA006
R2675,76	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3100-13	ERJ6ENF75R0	M 75 OHM, 1/10W	14	
R3114,15	ERJ6GEYJ223	M 22KOHM,J,1/10W	2	
R3116	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R3117-20	ERJ6GEYJ223	M 22KOHM,J,1/10W	4	
R3121	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R3122,23	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3124,25	ERJ6GEYJ680	M 68 OHM,J,1/10W	2	
R3126	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R3127-29	ERJ6GEYJ223	M 22KOHM,J,1/10W	3	

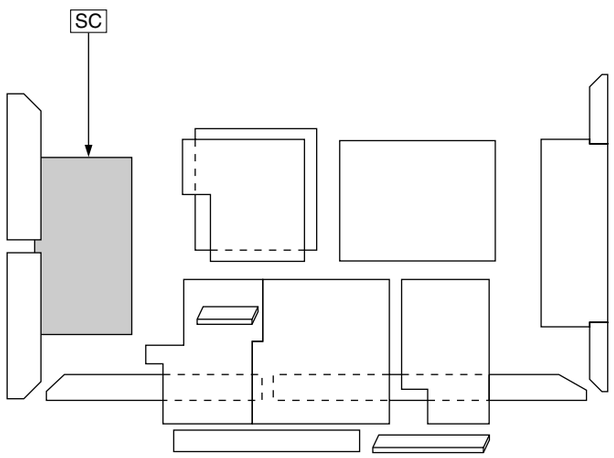
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3130-32	ERJ3GEYJ123	M 12KOHM,J,1/16W	3	
R3134,35	ERJ3GEYJ104	M 100KOHM,J,1/16W	2	
R3136	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3137	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3138	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R3140,41	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R3142	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R3143-45	ERJ6GEYJ750	M 75 OHM,J,1/10W	3	
R3147-49	ERJ8GEYJ391	M 390 OHM, J,1/8W	3	ERJ8GEYJ391V
R3150-52	ERJ3GEYJ102	M 1KOHM,J,1/16W	3	
R3153	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R3154-56	ERJ3GEYJ221	M 220 OHM,J,1/16W	3	
R3157	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R3158	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R3159-64	ERJ6GEYJ101	M 100 OHM,J,1/10W	6	
R3165,66	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R3167-70	TAJAAH0101JV	M 100 OHM,J,1/16W	4	D0GB101JA006
R3172	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3173	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R3174-79	ERJ3GEYJ333	M 33KOHM,J,1/16W	6	
R3180-83	ERJ3GEYJ471	M 470 OHM,J,1/16W	4	
R3184-86	ERJ3GEYJ820	M 82 OHM,J,1/16W	3	
R3187-89	ERJ3GEYJ471	M 470 OHM,J,1/16W	3	
R3196	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R3197	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R3198	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R3199	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R3200,01	ERJ3GEYJ104	M 100KOHM,J,1/16W	2	
R3202,03	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R3205	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R3206	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R3209,10	ERJ3EKF5600	M 560 OHM, 1/16W	2	
R3211	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R3212,13	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R3214	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R3216	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R3217	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R3218,19	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	2	
R3220,21	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R3222	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R3223,24	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R3225	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R3226-36	ERJ3GEYJ221	M 220 OHM,J,1/16W	11	
R3237	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R3238-41	ERJ3GEYJ221	M 220 OHM,J,1/16W	4	
R3242	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R3243-46	ERJ3GEYJ221	M 220 OHM,J,1/16W	4	
R3247-50	TAJAAH0101JV	M 100 OHM,J,1/16W	4	D0GB101JA006
R3255	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R3259	ERJ3EKF7500	M 750 OHM, 1/16W	1	
R3260,61	ERJ3GEYJ104	M 100KOHM,J,1/16W	2	
R3262-64	ERJ3EKF7500	M 750 OHM, 1/16W	3	
R3265,66	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R3267,68	ERJ3EKF6980	M 698 OHM, 1/16W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3269	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R3270,71	ERJ3EKF6980	M 698 OHM, 1/16W	2	
R3275-77	ERJ8GEYJ391	M 390 OHM, J,1/8W	3	ERJ8GEYJ391V
R3280	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R3281,82	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R3291,92	TAJAAH0470JV	M 47 OHM,J,1/16W	2	D0GB470JA006
R3293	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R3298	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
X2001	TSSA128	CRYSTAL	1	H0D184500008
X2002	EFCS6504BN	CERAMIC FILTER	1	TH-42PA20E
X2003	EFCS7004BN	CERAMIC FILTER	1	TH-42PA20E
X2651	H0D245500009	CRYSTAL	1	
ZA3101-04	K4ZZ01000121	EARTH LUG	4	
ZA3106,07	K4ZZ01000121	EARTH LUG	2	
C001,02	ECA1HM100	E 10UF, 50V	2	
C003	ECA0JM102	E 1000UF, 6.3V	1	
C005,06	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C008	ECJ1VF1H104Z	C 0.1UF, Z, 50V	1	
C009-11	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C012	ECJ3VB1C474K	C 0.47UF, K, 16V	1	
C022	ECJ3VB1C474K	C 0.47UF, K, 16V	1	
C023	ECA0JM102	E 1000UF, 6.3V	1	
D001,02	MA4020	ZENER DIODE	2	MAZ4020
D005	MA152K	DIODE	1	MA3X152K
JS001-03	ERJ3GEY0R00	M 0 OHM, 1/16W	3	TH-42PA20E
JS006	ERJ3GEY0R00	M 0 OHM, 1/16W	1	TH-42PA20E
JS011	ERJ3GEY0R00	M 0 OHM, 1/16W	1	TH-42PA20B
JS012	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS021	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
L001	ELJNC15NJF	CHIP COIL	1	
L002-05	G1C121Z00004	INDUCTOR COIL	4	
L006,07	J0JCC0000241	CHIP INDUCTOR	2	
L008	EXC3BB221H	BEAD CHOKE	1	
L009	TSK1040	FERRITE CORE	1	G1BYYYH00004
L011	ELJNC15NJF	CHIP COIL	1	
Q001	2SB709A	TRANSISTOR	1	2SB0709A
Q002	2SB709A	TRANSISTOR	1	2SB0709A TH-42PA20E
Q002	2SD601A	TRANSISTOR	2	2SD0601A TH-42PA20B
R001	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	TH-42PA20E
R001	ERJ6GEY0R00	M 0 OHM,1/10W	1	TH-42PA20B
R002	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R003	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R004	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	TH-42PA20E
R004	ERJ6GEY0R00	M 0 OHM,1/10W	1	TH-42PA20B
R005,06	ERJ3GEYJ683	M 68KOHM,J,1/16W	2	
R007	ERJ6GEY0R00	M 0 OHM, 1/10W	1	TH-42PA20E

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R007	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	TH-42PA20B
T10	TJS6A9390	24P CONNECTOR	1	K1KA24A00041
TNR001	ENG29526G	TUNER	1	TH-42PA20E ⚠
TNR001	ENG27519G	TUNER	1	TH-42PA20B ⚠
ZA001,02	K4ZZ01000121	EARTH LUG	2	

19. Schematic Diagram for printing with A4

20. Cover for printing with A4



Parts Location

SC-BOARD (FOIL SIDE)

TRANSISTOR		TP			
Q6491	E-3	TP1	A-2	TP32	C-2
Q6492	E-2	TP2	A-2	TP33	C-2
Q6550	B-5	TP4	A-2	TP34	B-2
Q6601	B-3	TP5	A-2	TP35	B-2
Q6602	B-3	TP6	B-2	TP36	A-4
Q6605	C-3	TP7	B-2	TP37	A-4
Q6606	C-3	TP8	B-2	TP38	D-2
Q6621	E-3	TP9	B-2	TP39	C-2
Q6624	E-3	TP10	C-2	TP40	A-5
Q6671	A-4	TP11	C-2	TP41	A-5
Q6672	A-4	TP12	D-2	TP42	A-5
Q6673	A-4	TP13	D-2	TP43	A-5
		TP14	D-2	TP44	A-5
		TP15	D-2	TP45	A-5
		TP16	D-2	TP46	F-5
		TP17	D-2	TP47	F-5
		TP18	D-2	TP48	F-5
		TP19	D-2	TP49	F-5
		TP20	D-2	TP50	F-5
		TP21	D-2	TP51	F-5
		TP22	D-2	TP52	D-2
		TP23	D-2	TP54	C-5
		TP24	D-2	TP55	B-5
		TP25	E-2	TP56	B-5
		TP26	C-2	TP57	B-5
		TP27	C-2	TP58	B-5
		TP28	C-2	TP59	E-5
		TP29	C-2	TP60	E-5
		TP30	C-2	TP61	E-5
		TP31	C-2	TP62	E-5
				TP63	E-5

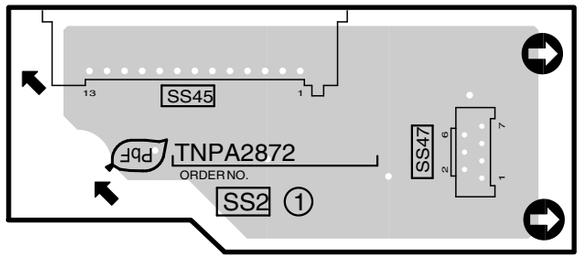
Parts Location

SC-BOARD (COMPONENT SIDE)

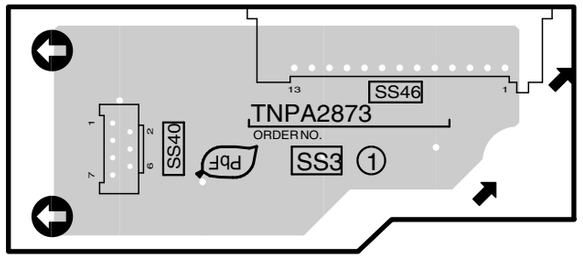
IC		TRANSISTOR		Q6542	D-4	TP	
IC6451	B-3	Q6451	A-3	Q6543	D-4	TP15V	F-2
IC6452	B-3	Q6452	A-3	Q6544	E-4	TPSC1	C-5
IC6453	B-4	Q6454	B-3	Q6545	E-4	TPVAD	C-4
IC6454	B-5	Q6455	A-3	Q6546	E-4	TPVBK	G-4
IC6455	A-4	Q6461	A-2	Q6547	E-4	TPVSCN	B-3
IC6456	B-2	Q6462	A-2	Q6548	F-5	TPVSET	C-3
IC6471	B-4	Q6463	A-2	Q6549	F-5		
IC6472	B-4	Q6471	A-3	Q6550	F-6		
IC6491	C-2	Q6472	A-3	Q6551	D-4		
IC6501	A-4	Q6474	B-4	Q6552	C-4		
IC6502	A-4	Q6475	A-3	Q6553	B-4		
IC6510	D-5	Q6476	B-4	Q6554	C-4		
IC6511	C-5	Q6477	B-4	Q6555	B-4		
IC6512	D-4	Q6491	C-2	Q6556	B-4		
IC6521	D-4	Q6492	B-2	Q6581	B-2		
IC6541	D-4	Q6501	B-5	Q6582	C-4		
IC6542	B-4	Q6502	D-4	Q6601	F-3		
IC6581	B-2	Q6503	C-5	Q6602	F-3		
IC6601	E-3	Q6504	D-4	Q6603	D-2		
IC6602	C-3	Q6511	C-5	Q6604	D-2		
IC6603	G-4	Q6512	C-4	Q6605	D-2		
IC6604	G-4	Q6520	D-4	Q6606	E-3		
IC6605	E-3	Q6521	D-4	Q6611	E-2		
IC6606	E-3	Q6522	D-4	Q6612	E-2		
IC6607	D-3	Q6523	D-4	Q6613	E-3		
		Q6524	E-4	Q6614	E-3		
		Q6525	E-4	Q6621	C-3		
		Q6526	E-4	Q6624	C-3		
		Q6527	E-4	Q6641	F-5		
		Q6528	F-4	Q6642	F-4		
		Q6529	F-4	Q6671	G-4		
		Q6530	D-4	Q6672	F-4		
		Q6541	D-4	Q6673	G-4		

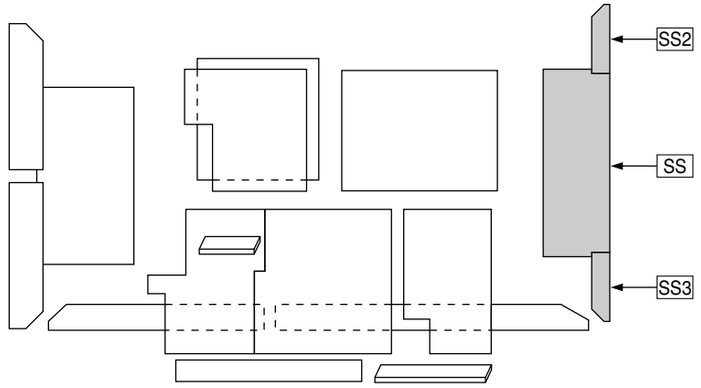
TH-42PA20B/E
SC-BOARD PARTS LOCATION

SS2-BOARD(COMPONENT SIDE)
TNPA2872



SS3-BOARD(COMPONENT SIDE)
TNPA2873

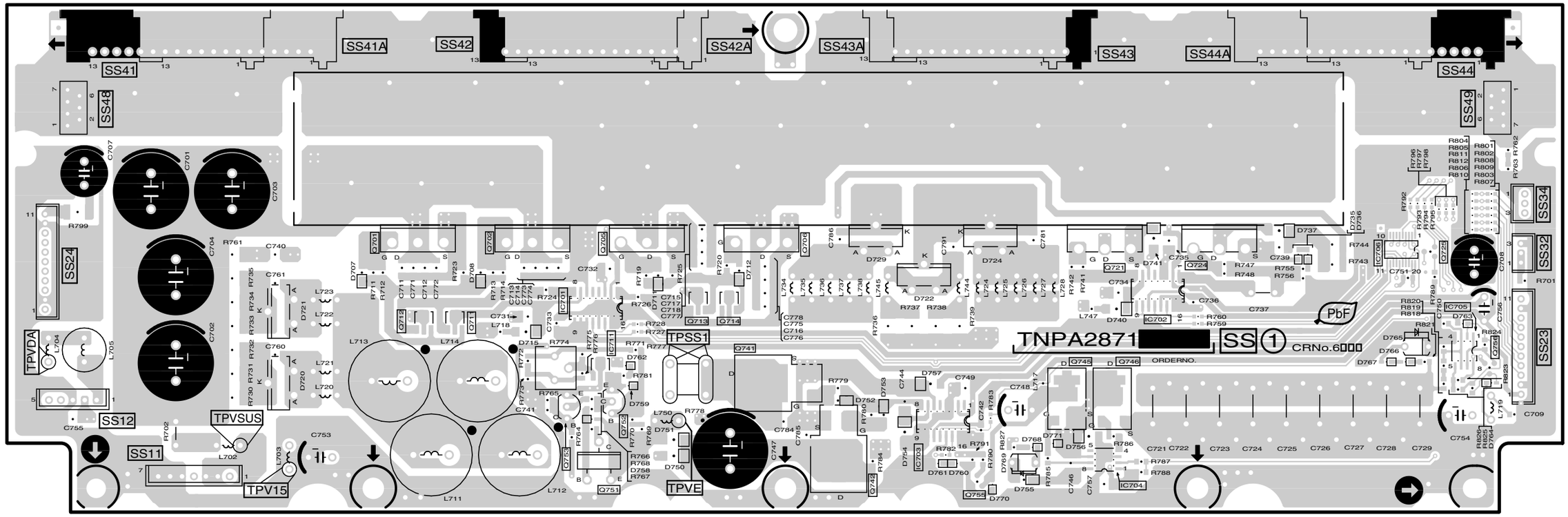




Parts Location

SS-BOARD (COMPONENT SIDE)					
IC		**TRANSISTOR**		**TP**	
IC6701	D-2	Q6701	C-2	TPSS1	D-2
IC6702	G-2	Q6702	C-2	TPV15	B-1
IC6703	F-2	Q6705	D-2	TPVDA	A-2
IC6704	G-1	Q6706	E-2	TPVE	D-1
IC6705	H-2	Q6711	C-2	TPVSUS	B-1
IC6706	H-2	Q6712	C-2		
IC6711	D-2	Q6713	D-2		
		Q6714	E-2		
		Q6721	G-2		
		Q6724	G-2		
		Q6725	H-2		
		Q6741	E-2		
		Q6742	E-1		
		Q6745	F-2		
		Q6746	G-2		
		Q6751	D-1		
		Q6752	D-2		
		Q6753	D-2		
		Q6756	F-1		
		Q6756	I-2		

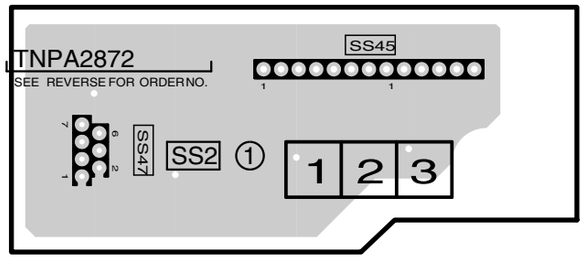
SS-BOARD(COMPONENT SIDE)
TXNSS10QBS



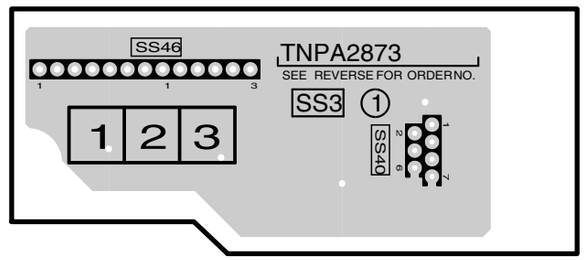
TH-42PA20B/E
SS-BOARD TXNSS10QBS
SS2-BOARD TNPA2872
SS3-BOARD TNPA2873

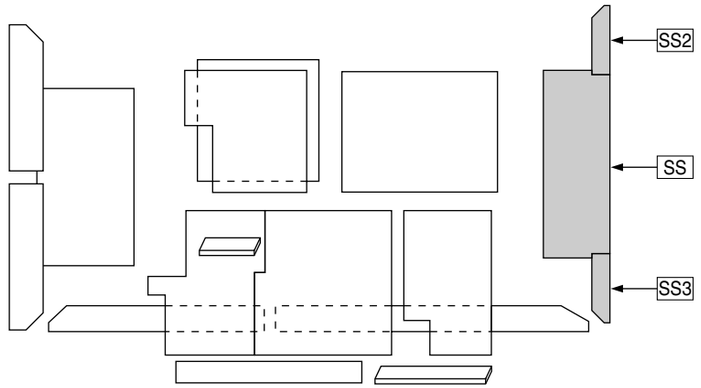
TH-42PA20B/E
SS-BOARD TXNSS10QBS
SS2-BOARD TNPA2872
SS3-BOARD TNPA2873

SS2-BOARD(FOIL SIDE)
TNPA2872



SS3-BOARD(FOIL SIDE)
TNPA2873

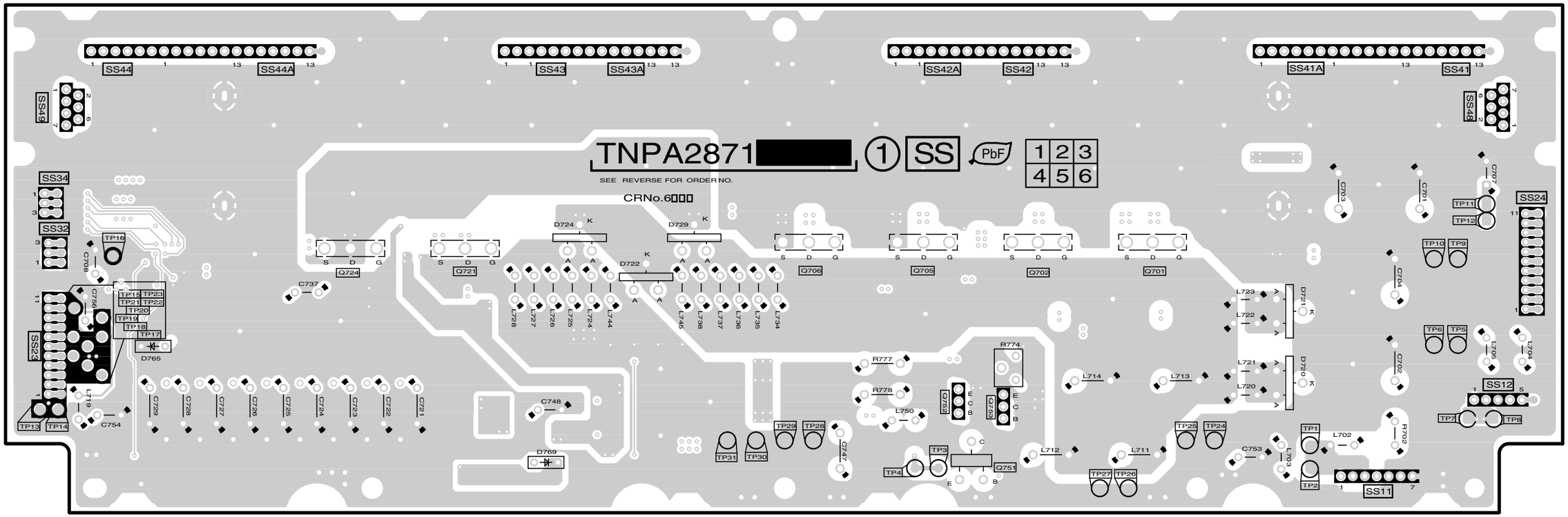




Parts Location

SS-BOARD (FOIL SIDE)					
TRANSISTOR		**TP**		TP16	A-2
Q6701	G-2	TP1	H-1	TP17	A-2
Q6702	F-2	TP2	H-1	TP18	A-2
Q6705	F-2	TP3	F-1	TP19	A-2
Q6706	E-2	TP4	F-1	TP20	A-2
Q6721	C-2	TP5	H-2	TP21	A-2
Q6724	C-2	TP6	H-2	TP22	A-2
Q6751	F-1	TP7	H-2	TP23	A-2
Q6752	F-2	TP8	I-2	TP24	G-1
Q6753	F-2	TP9	H-2	TP25	G-1
		TP10	H-2	TP26	G-1
		TP11	H-3	TP27	G-1
		TP12	H-3	TP28	E-1
		TP13	A-2	TP29	E-1
		TP14	A-2	TP30	E-1
		TP15	A-2	TP31	E-1

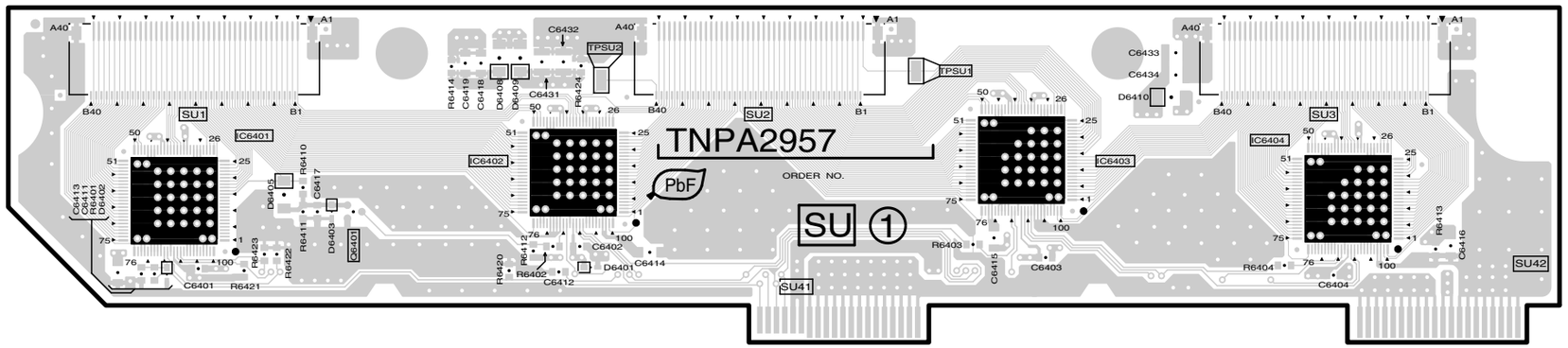
SS-BOARD(FOIL SIDE)
TXNSS10QBS

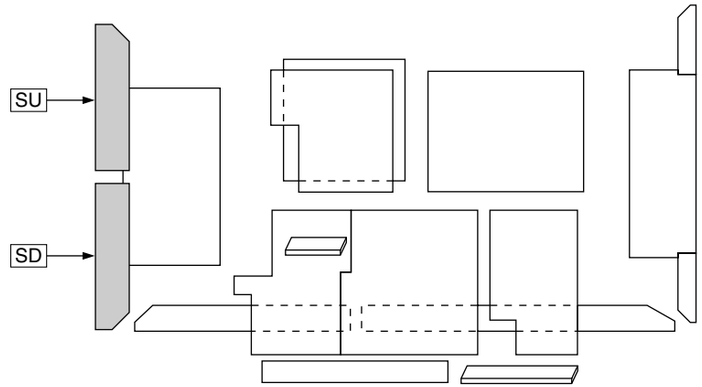


TH-42PA20B/E
SS-BOARD TXNSS10QBS
SS2-BOARD TNPA2872
SS3-BOARD TNPA2873

TH-42PA20B/E
SS-BOARD TXNSS10QBS
SS2-BOARD TNPA2872
SS3-BOARD TNPA2873

SU-BOARD
TNPA2957

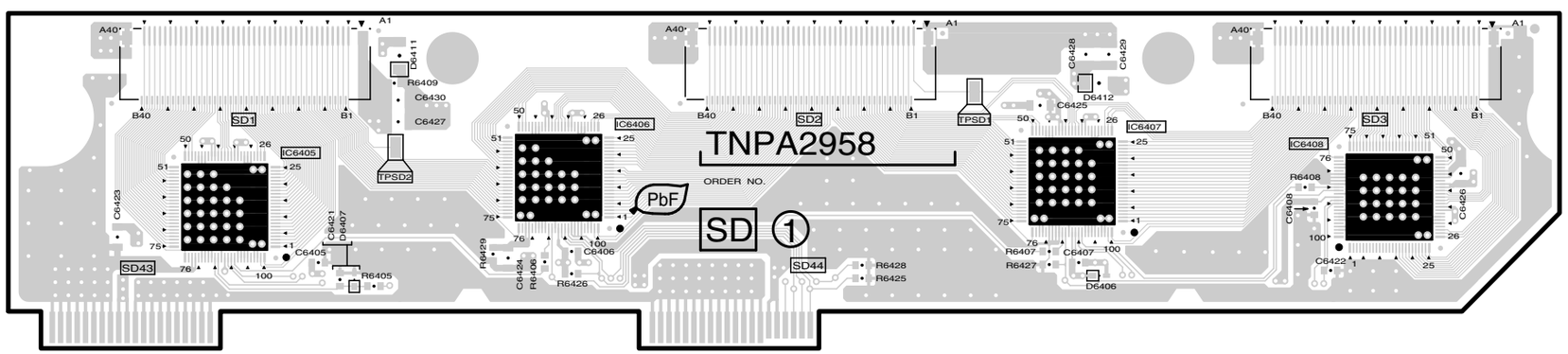




Parts Location

SU-BOARD			
IC		**TRANSISTOR**	
IC6401	B-5	Q6401	B-4
IC6402	C-5	**TP**	
IC6403	E-5		
IC6404	F-5	TPSU1	D-5
		TPSU2	C-5

SD-BOARD
TNPA2958



Parts Location

SD-BOARD			
IC		**TP**	
IC6405	B-2	TPSD1	D-2
IC6406	C-2	TPSD2	B-2
IC6407	E-2		
IC6408	F-2		

TH-42PA20B/E
SU-BOARD TNPA2957
SD-BOARD TNPA2958

C1-BOARD TNPA2869

TO
C2-BOARD
(C22)
(C2-BOARD REVERSE FOR CONENCETOR PIN NO)

TO
DATA
DRIVER

CLOCK BUFFER

IC7101
C0JBAZ001604
(SN74AC7244PWR)

IC7104
C0JBAZ001604
(SN74AC7244PWR)

IC7105
C0JBAZ001604
(SN74AC7244PWR)

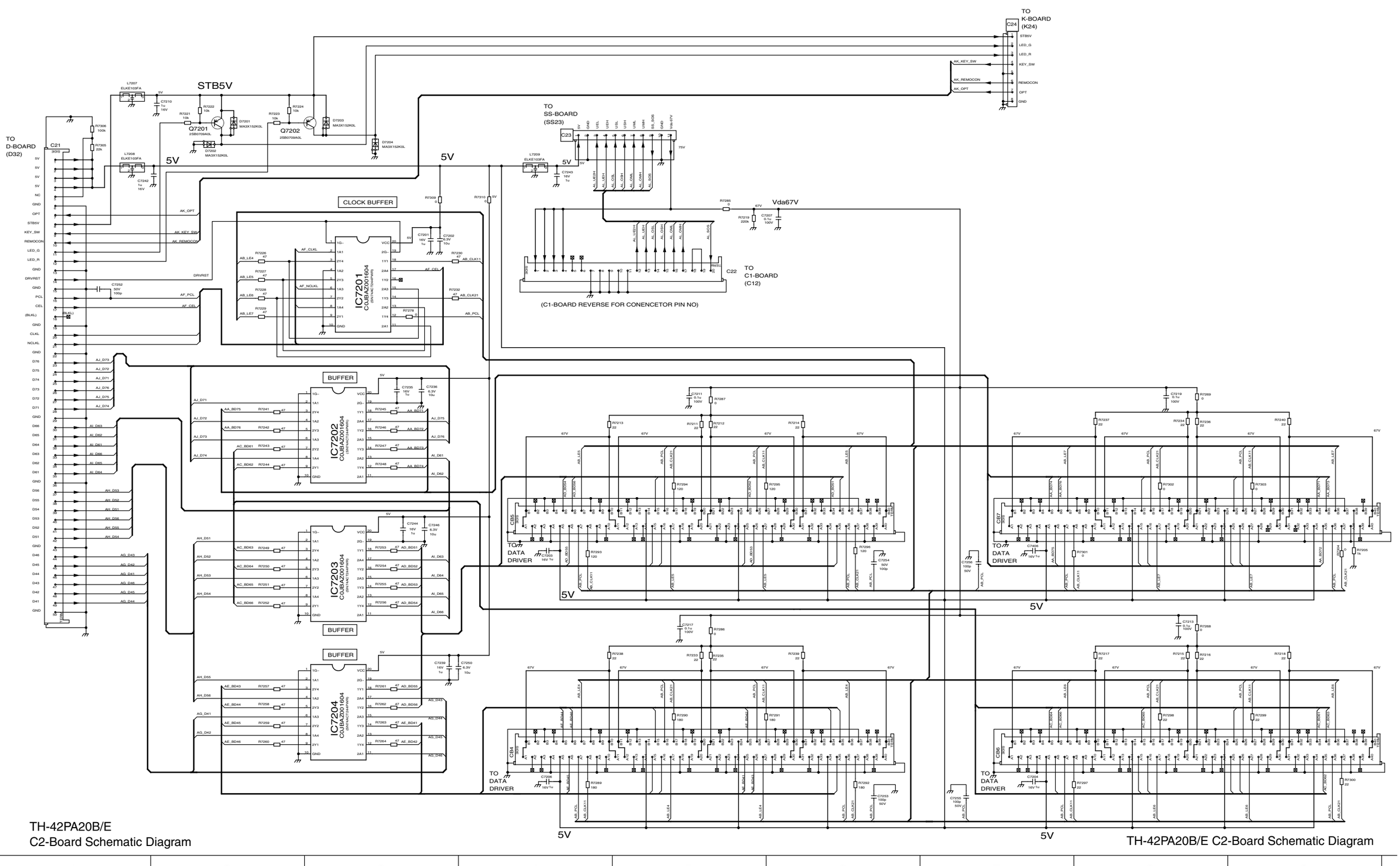
IC7106
C0JBAZ001604
(SN74AC7244PWR)

BUFFER

TO
D-BOARD
(D31)

TH-42PA20B/E
C1-Board Schematic Diagram

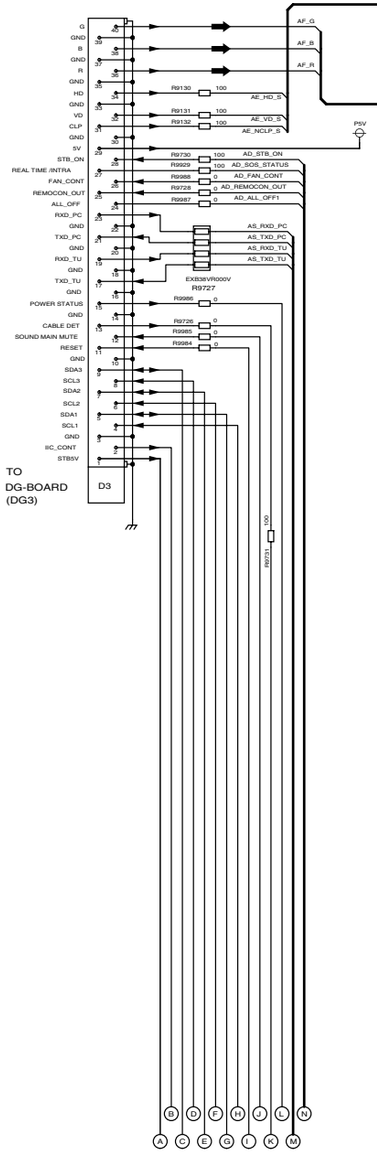
C2-BOARD TNPA2870

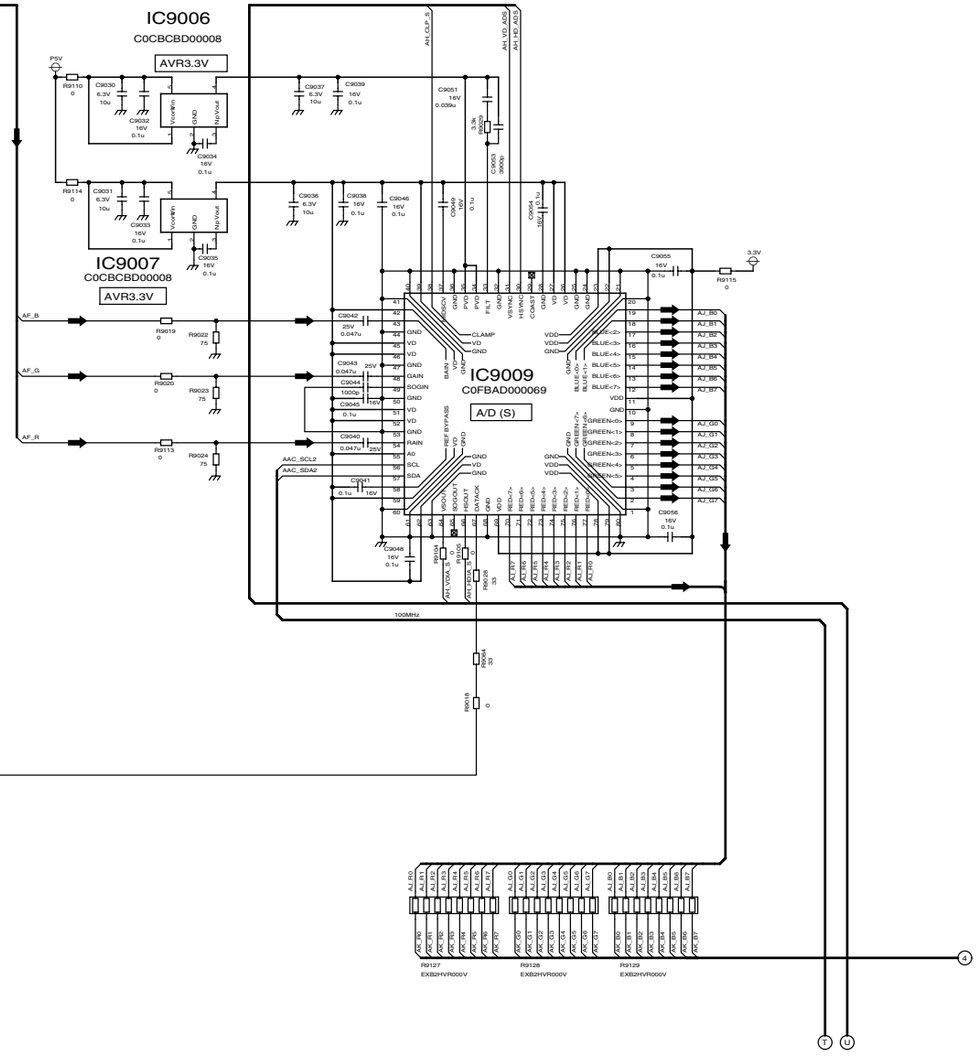


TH-42PA20B/E
C2-Board Schematic Diagram

TH-42PA20B/E C2-Board Schematic Diagram

D-BOARD TXN/D10QCS (1/11)





TO
D-BOARD
(6/12)

TH-42PA20B/E D-Board(1of11)Schematic Diagram

TH-42PA20B/E D-Board(1of11)Schematic Diagram

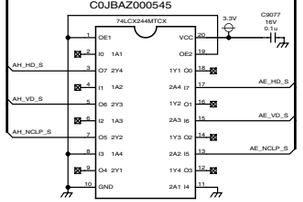
D-BOARD TXN/D10QCS (2/11)

2

5V->3.3V

IC9023

C0JBAZ000545



4

41

42

44

AB AF AG

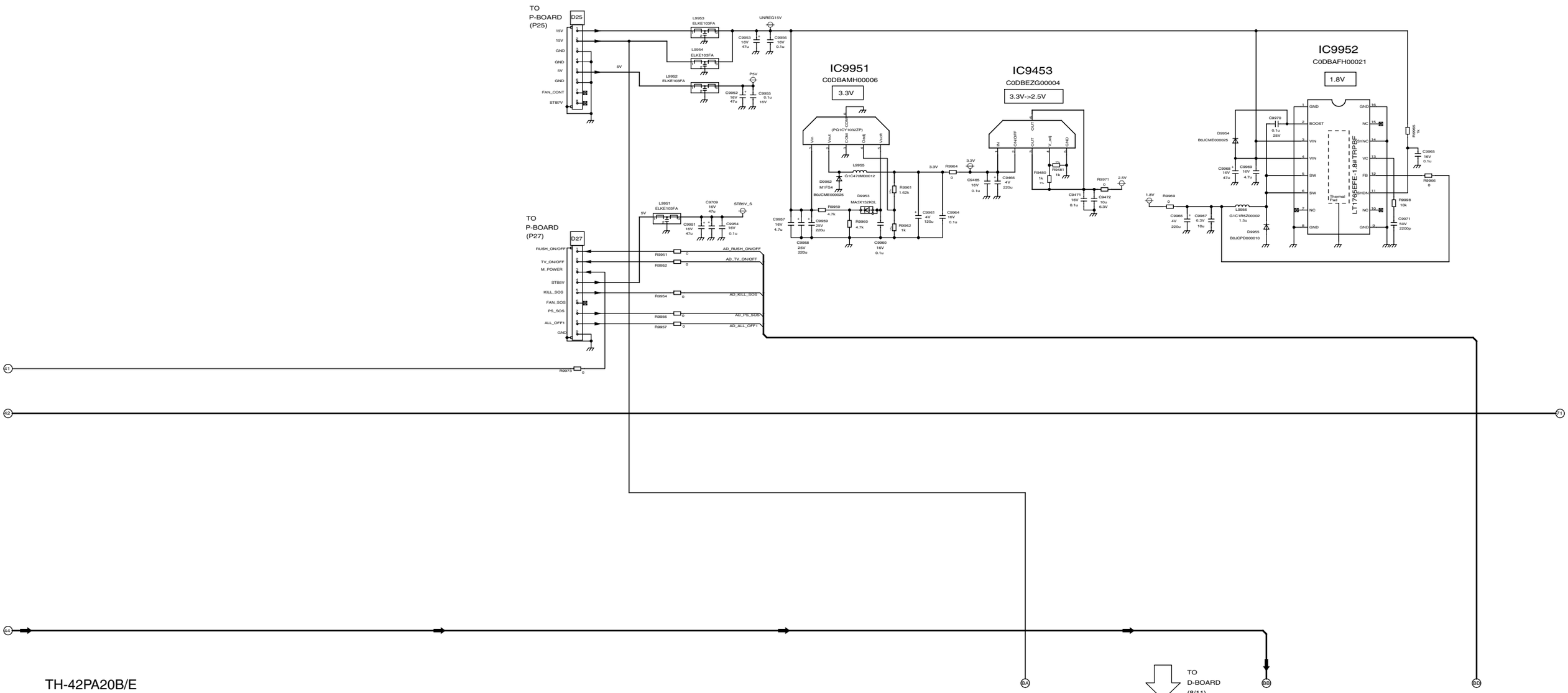
TO
D-BOARD
(7/11)

TH-42PA20B/E
D-Board(2of11)Schematic Diagram

TH-42PA20B/E D-Board(2of11)Schematic Diagram

10 11 12 13 14 15 16 17 18

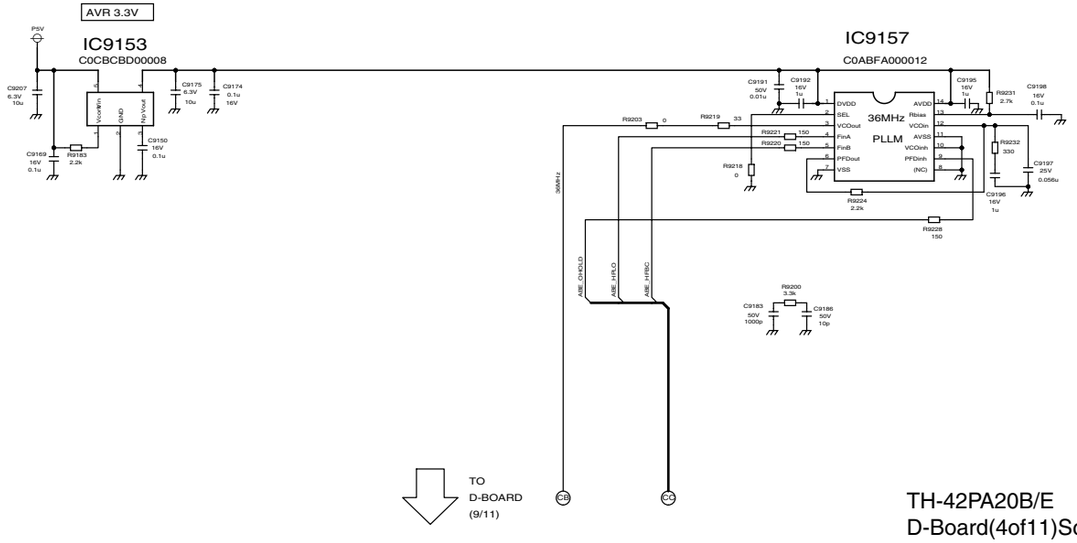
D-BOARD TXN/D10QCS (3/11)



TH-42PA20B/E
D-Board(3of11)Schematic Diagram

TH-42PA20B/E D-Board(3of11)Schematic Diagram

⚠ D-BOARD TXN/D10QCS (4/11)



F1

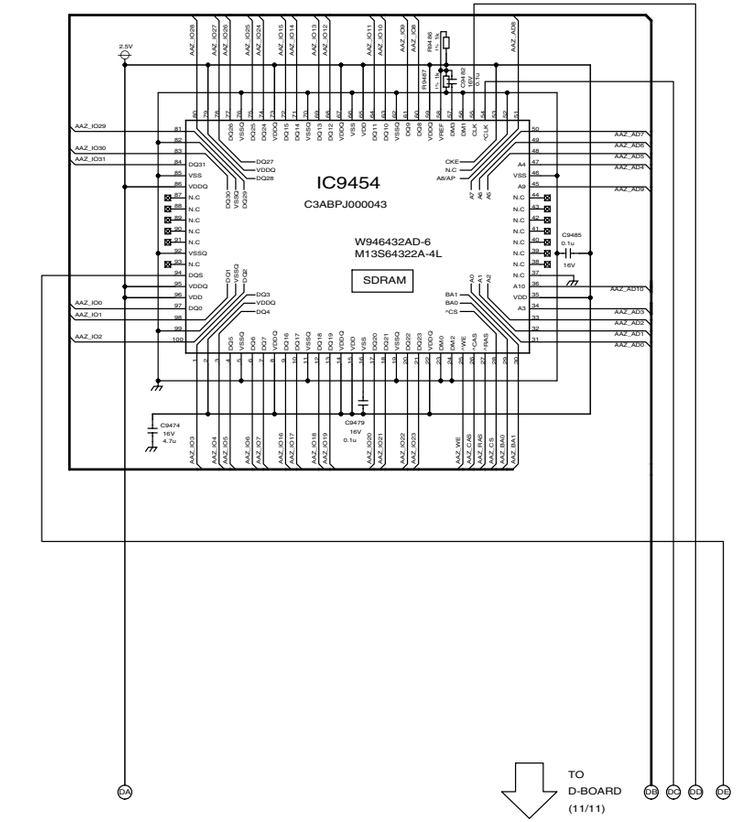
CA

TH-42PA20B/E D-Board(4of11)Schematic Diagram

TH-42PA20B/E
D-Board(4of11)Schematic Diagram

28 29 30 31 32 33 34 35 36

D-BOARD TXN/D10QCS (5/11)



TH-42PA20B/E
D-Board(5of11)Schematic Diagram

TH-42PA20B/E
D-Board(5of11)Schematic Diagram

D-BOARD TXN/D10QCS (6/11)

TO
D-BOARD
(1/11)

TO
SC-BOARD
(SC20)

IC9701
MN102L230
MICOM

IC9702
C3EBJC000038
EEPROM

IC9711
C0JBAS000109
SWITCH

IIC 3.3V
IIC 5V
IIC CONT
5V<->3.3V

TH-42PA20B/E D-Board(6of11)Schematic Diagram

TO
D-BOARD
(2/11)

D-BOARD TXN/D10QCS (7/11)

CONVERT MICOM
IC9709 M38049FFFP
C2BBGF000297 TVRJ950-2

IC9707
C0JBAE000283
SN74AHC1G32HDBVR
OR

IC9708
C3EBGC000018
EEPROM

IC9710
C0EBB0000024
RESET

IC9704
C3HAHC000006
VRAM

IC9705
C3FBLD000039
FLASH MEMORY
8M ROM
TVRJ951-1:SD

IC9706
C0JBAZ000545
74LCX244MTCX
5V->3.3V

IC9703
C0JBAZ001604
SN74ACT244PWR
3.3V->5V

IC9601
C0JBAZ001604
SN74ACT244PWR
3.3V->5V

IC9603
C0JBAZ001604
SN74ACT244PWR
3.3V->5V

IC9604
C0JBAZ001604
SN74ACT244PWR
3.3V->5V

IC9602
C0JBAZ000545
74LCX244MTCX
5V->3.3V

1Mbit
(128KW*8bit)

TH-42PA20B/E D-Board(7of11)Schematic Diagram

TH-42PA20B/E D-Board(7of11)Schematic Diagram

10 11 12 13 14 15 16 17 18

D-BOARD TXN/D10QCS (8/11)

TO D-BOARD (3/11)

DISCHARGE CONTROL
OSD
SYNC PROCESSOR

IC9605
C1ZBZ0002329

XC2S200E-6PQG208C
(SPARTAN2E)

IC9608
C0ZBZ0000764
TE7720PF

FPGA CONTROL

IC9606
C0EBE0000066

RESET

TH-42PA20B/E D-Board(8of11)Schematic Diagram

TH-42PA20B/E D-Board(8of11)Schematic Diagram

19 20 21 22 23 24 25 26 27

D-BOARD TXN/D10QCS (9/11)

TO D-BOARD (4/11)

IC9152
C0CBCBD00008

IC9151
MN845041-A

FORMAT CONVERTER
RGB PROCESSOR

MN845041-A

Analog

A/D PLL

MCK PLL

OCK PLL

SCK PLL

For many use

Digital-B

Digital-C

IIC

To micom

OSD

SD-RAM I/F

TEST

NO USED

Output - A

LEFT(Master)

Output - B

RIGHT(Slave)

TH-42PA20B/E D-Board(9of11)Schematic Diagram

TH-42PA20B/E
D-Board(9of11)Schematic Diagram

D-BOARD TXN/D10QCS (10/11)

TP_HD

TP_VD

IC9302
C0CBCBD00008

AVR 3.3V

PLL SYNTHESIZER

IC9301
C1ZBZ0002358

PLL SYNTHESIZER

IC9303
C1ZBZ0002357

64M-SDRAM

IC9155
C3ABPJ000042
W94632HD-6
MT48LC2M32B2TG-6
EM638325TS-6

DRIVER RESET

TO C1-BOARD (C11)

TH-42PA20B/E
D-Board(10of11)Schematic Diagram

IC9455
MN84510-A

PLASMA AI
SUB FIELD PROCESSOR

TO
D-BOARD
(5/11)

FC RAM I/F

From LSI43

MN84510-A

CLK

other

CONTROL

FPGA I/F

TEST

IIC

Flash ROM I/F

to DATA Driver

IC9459
C0JBAZ001992
SN74CBT16211ADGGR
SWITCH

IC9456
C3FBND000172
TVRJ952-1
MBM29DL323TE90TN-K
32M-FLASH

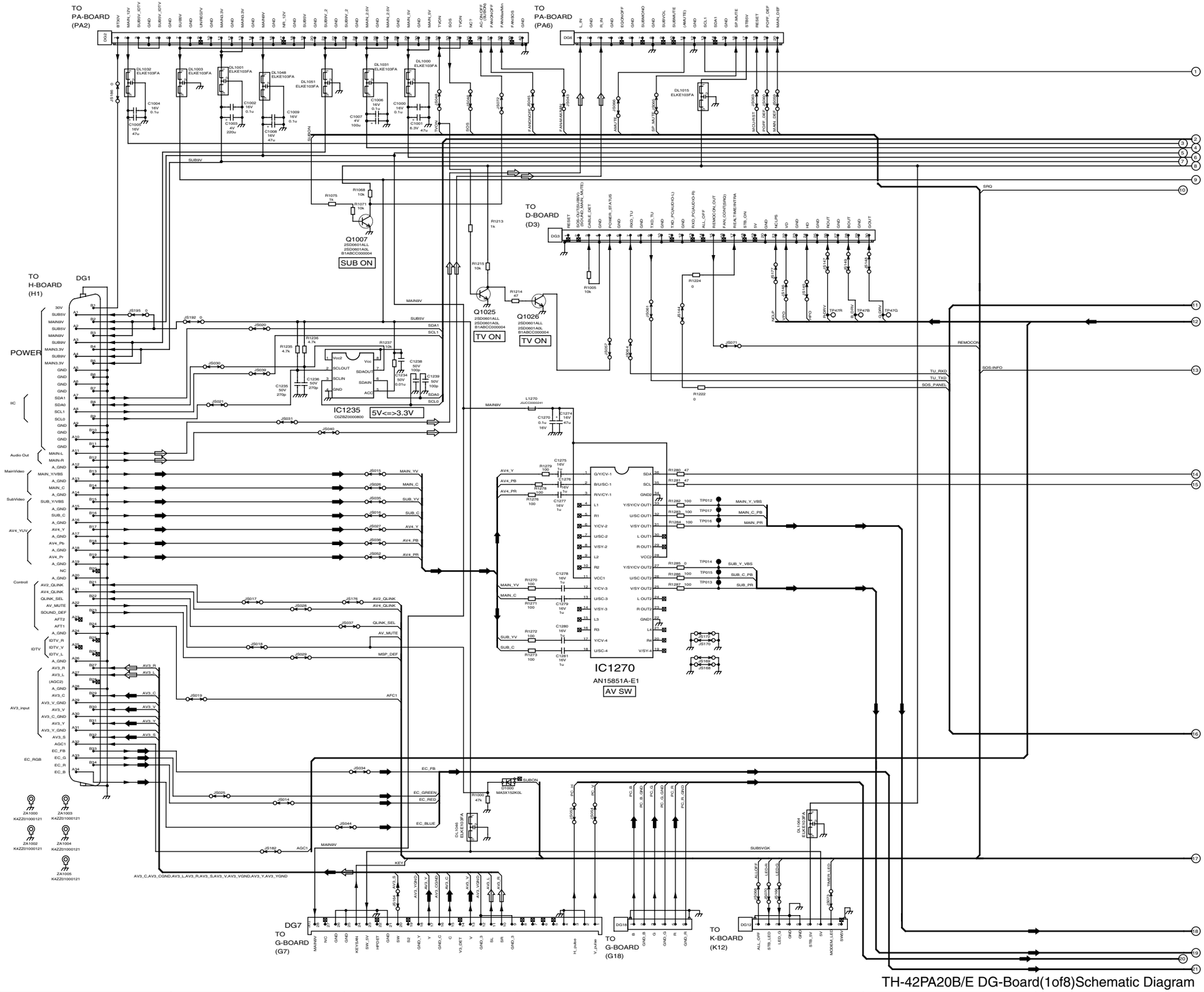
TO
C2-BOARD
(C21)

D-BOARD TXN/D10QCS (11/11)

TH-42PA20B/E
D-Board(11of11)Schematic Diagram

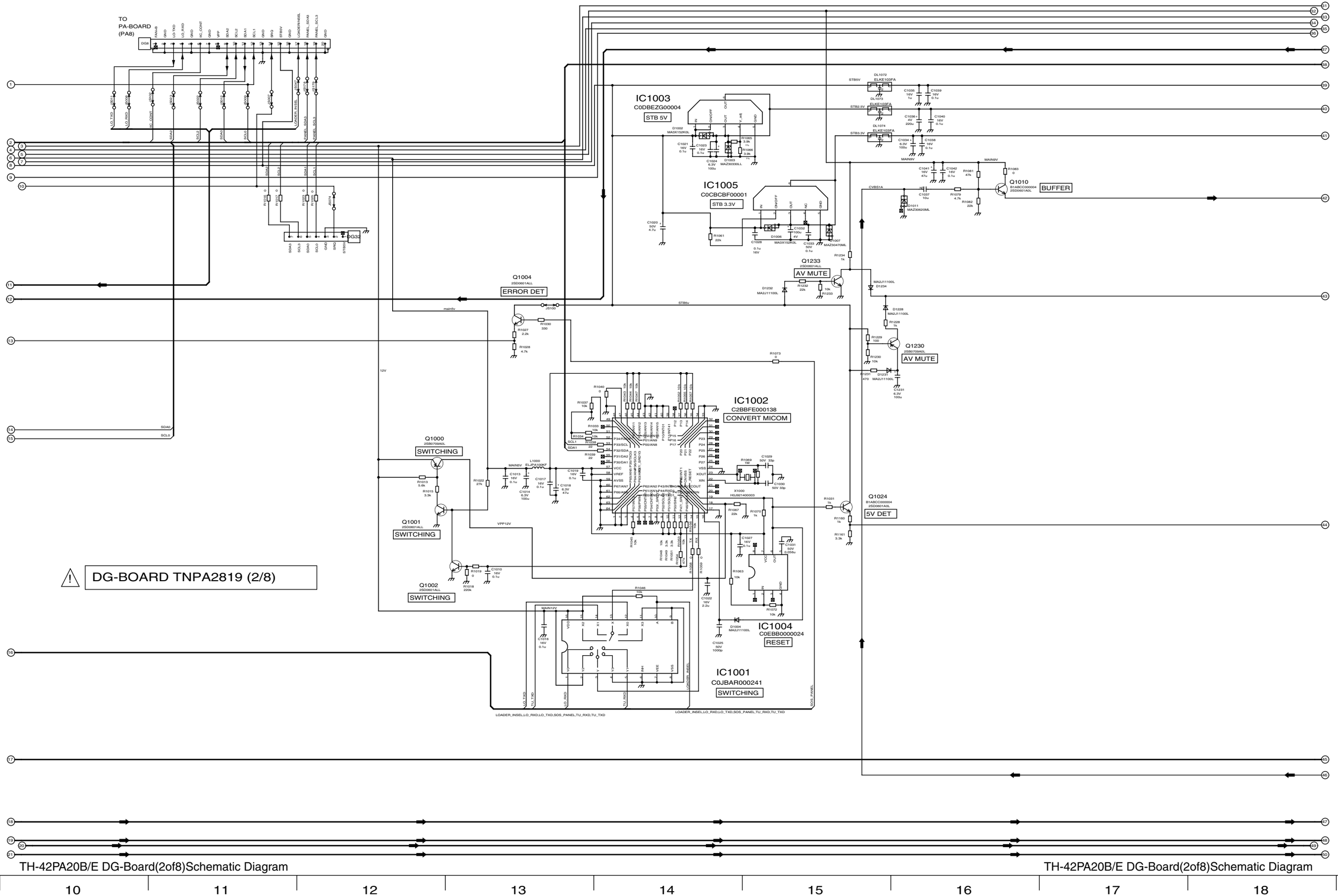
TH-42PA20B/E D-Board(11of11)Schematic Diagram

DG-BOARD TNPA2819 (1/8)



TH-42PA20B/E
DG-Board(1of8)Schematic Diagram

TH-42PA20B/E DG-Board(1of8)Schematic Diagram


DG-BOARD TNPA2819 (2/8)
TO PA-BOARD (PA8)
IC1003
C0DBEZG00004
STB 5V
IC1005
C0CBCBF00001
STB 3.3V
IC1002
C2BBFE000138
CONVERT MICOM
IC1004
C0EBB0000024
RESET
IC1001
C0JBAR000241
SWITCHING
Q1000
2SB0709A0L
SWITCHING
Q1001
2SD0601ALL
SWITCHING
Q1002
2SD0601ALL
SWITCHING
Q1004
2SD0601ALL
ERROR DET
Q1233
2SD0601ALL
AV MUTE
Q1230
2SB0709A0L
AV MUTE
Q1024
B1ABCC000004
2SD0601A0L
5V DET
Q1010
B1ABCC000004
2SD0601A0L
BUFFER
LOADER_INSEL,LO_RXD,LO_TXD,SOS_PANEL,TU_RXD,TU_TXD
LOADER_INSEL,LO_RXD,LO_TXD,SOS_PANEL,TU_RXD,TU_TXD

MAIN12V
MAIN9V
MAIN5V
MAIN2.5V
12v
9v
5v
STB5.0V
STB2.5V
SUB5V
SVDET
TCK,TDI,TDO,TMS,TRIG_IN,TRIG_OUT

IC1009
C0JBAZ001839
5V<=>3.3V

IC1011
C0JBAE000231
OR GATE

IC1006
C0JBAS000160
SWITCHING

IC1008
C3EBHC000020
EEPROM

IC1013
C3FBMD000050
MBM29LV160BE70TN-GK
16Mbit FLASH-ROM

IC1012
C3ABPG000102
K4S641632F-TC75
64MBit SDRAM (4M*16Bit)

IC1007
C2CBYF000028
TEXT MICOM
2.25-2.75V
3.0-3.6V

IC1010
PST9128NR
RESET

IC1014
C0JBAB000553
INVERTER

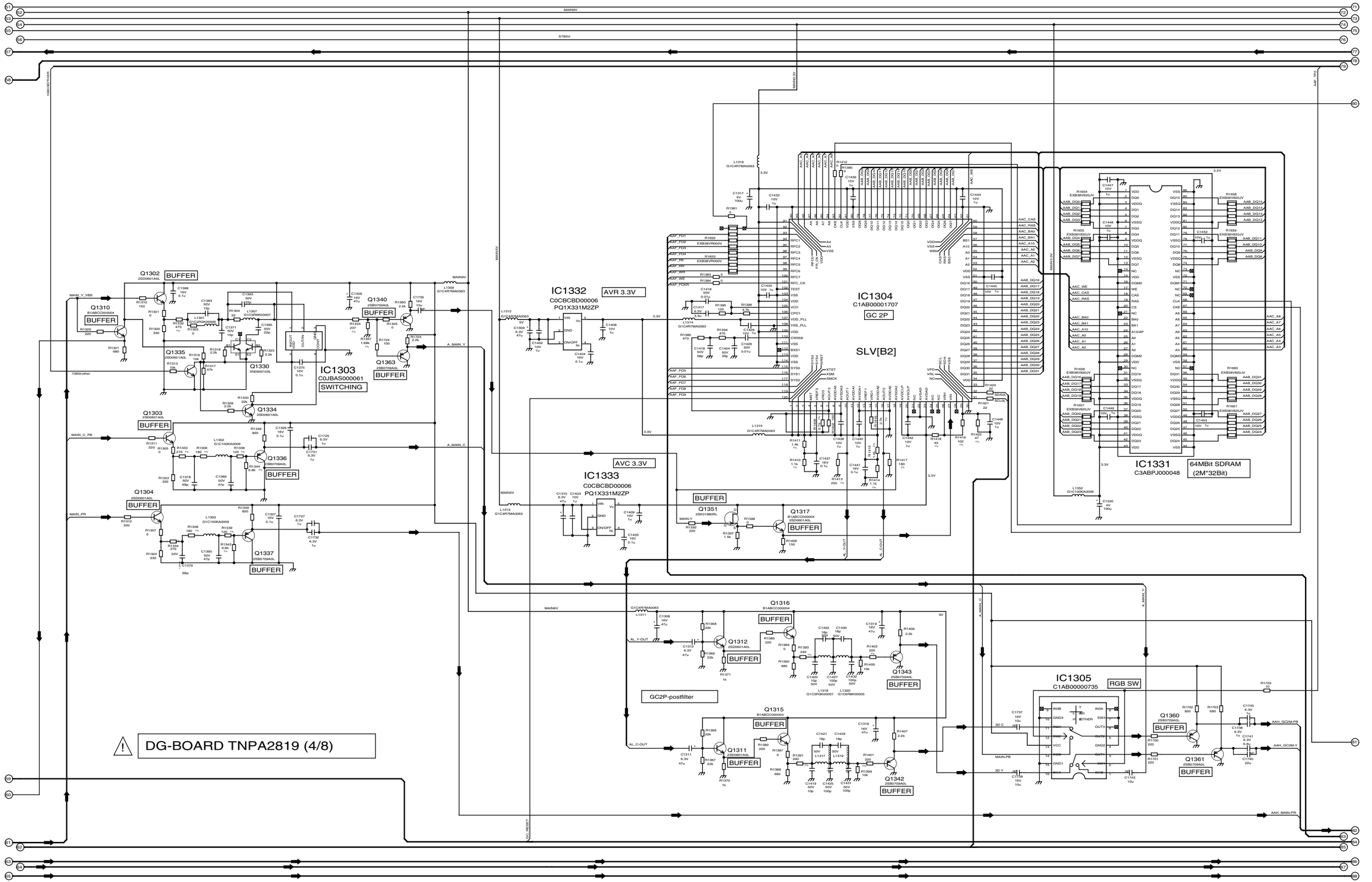
Q1014 2SD0601A0L B1ABCC000004 SWITCHING
Q1016 B1ABCC000004 2SD0601A0L SWITCHING
Q1018 B1ABCC000004 2SD0601A0L SWITCHING
Q1017 B1ABCC000004 2SD0601A0L SWITCHING
Q1019 B1ABCC000004 2SD0601A0L SWITCHING
Q1013 B1ABCC000004 2SD0601A0L ERROR DET
Q1012 B1ABCC000004 2SD0601A0L SWITCHING
Q1255 B1ABCC000004 2SD0601A0L SWITCHING
Q1254 B1ABCC000004 2SD0601A0L SWITCHING
Q1225 2SB0709A0L AV MUTE

D1009 MA3X152KOL B0ACCJ000016
D1227 MAZJ11100L
DL1091 ELKE103FA
DL1090 ELKE103FA

L1003 G1C3R3MA0063
L1004 G1C4R7MA0063
L1005 G1C4R7MA0063
L1006 G1C4R7MA0063
L1009 G1C4R7MA0063

JS001

TRIG_OUT
TRIG_IN
DAC RESET
MCU-RST
AV_MUTE
AE_WR
AE_CLK
AE_CS
AE_RD
AE_LDQM
AE_UDQM



TH-42PA20B/E DG-Board(4of8)Schematic Diagram

TH-42PA20B/E DG-Board(4of8)Schematic Diagram

28 29 30 31 32 33 34 35 36

IC1301
C1AB00001826
GC2M+

IC1313
C0JBAB000382
CLOCK

IC1311
C0CBCAD00012
TK11125CSCL-G
AVR 2.5V

IC1319
C0CBCAD00012
TK11125CSCL-G
AVR 2.5V

SLV[88] :Primary
SLV[8A] :Secondary

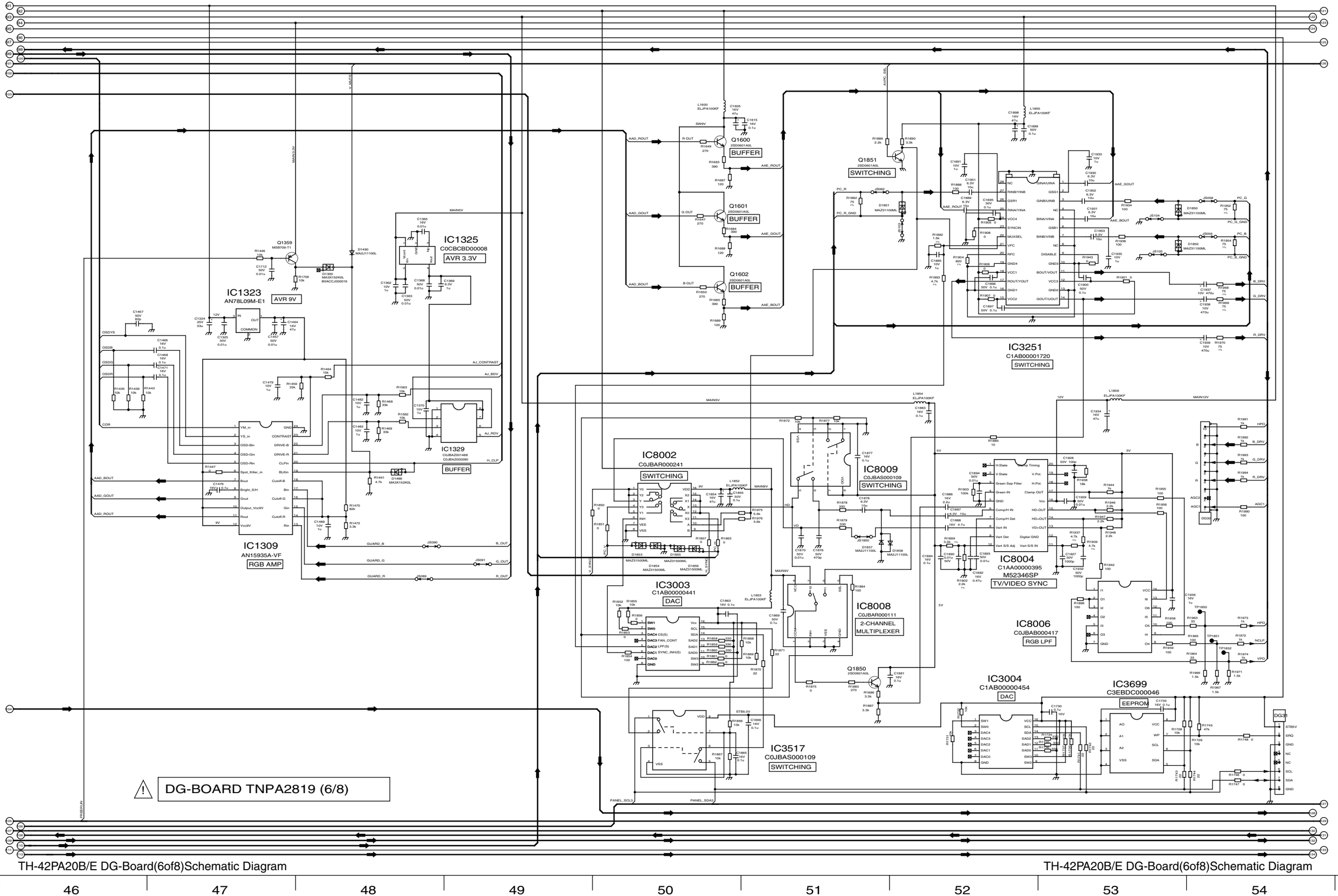
HEAT SINK : TUC4G758
TAPE : TWFT2020Q024

DG-BOARD TNPA2819 (5/8)

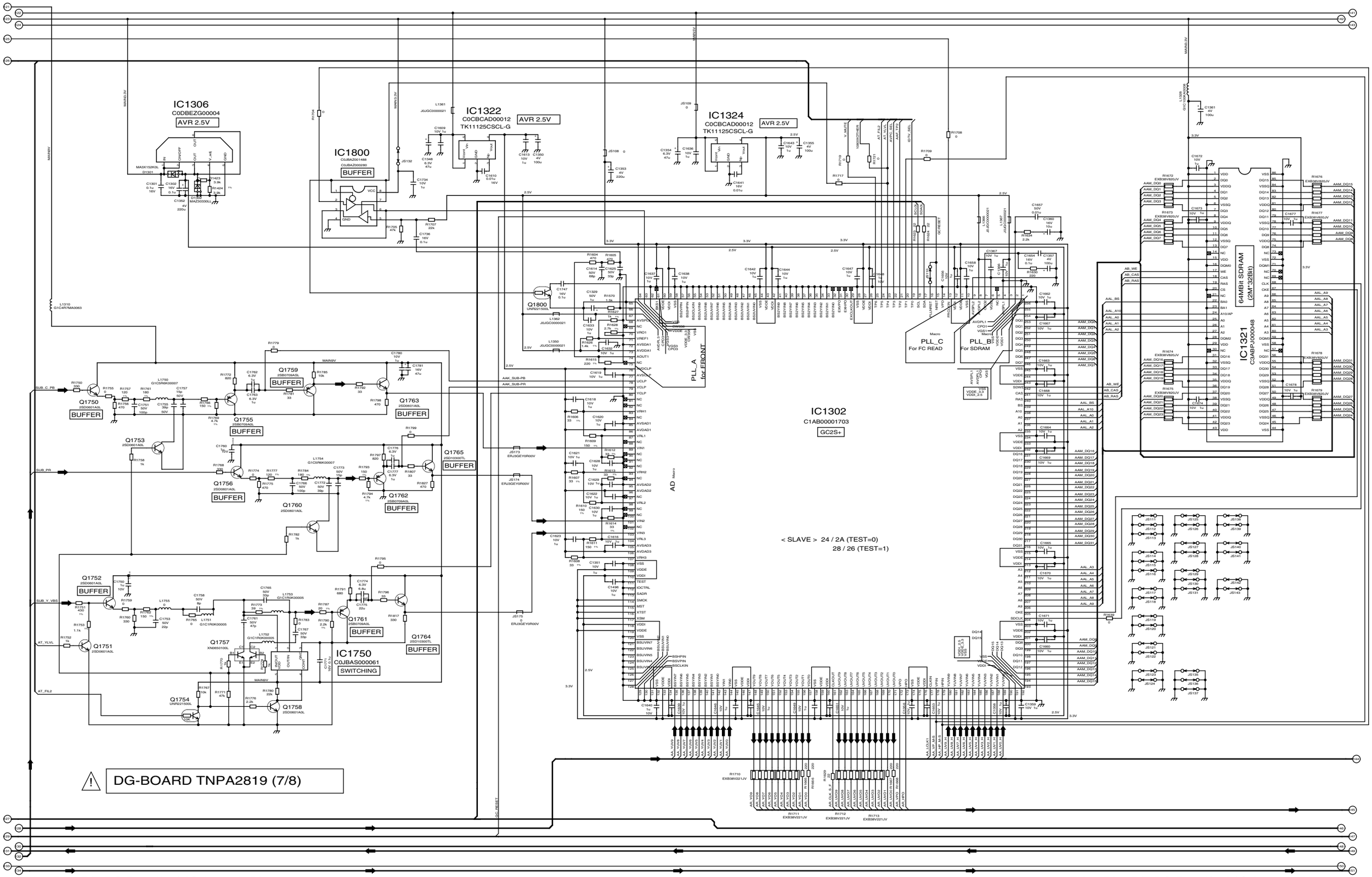
TH-42PA20B/E DG-Board(5of8)Schematic Diagram

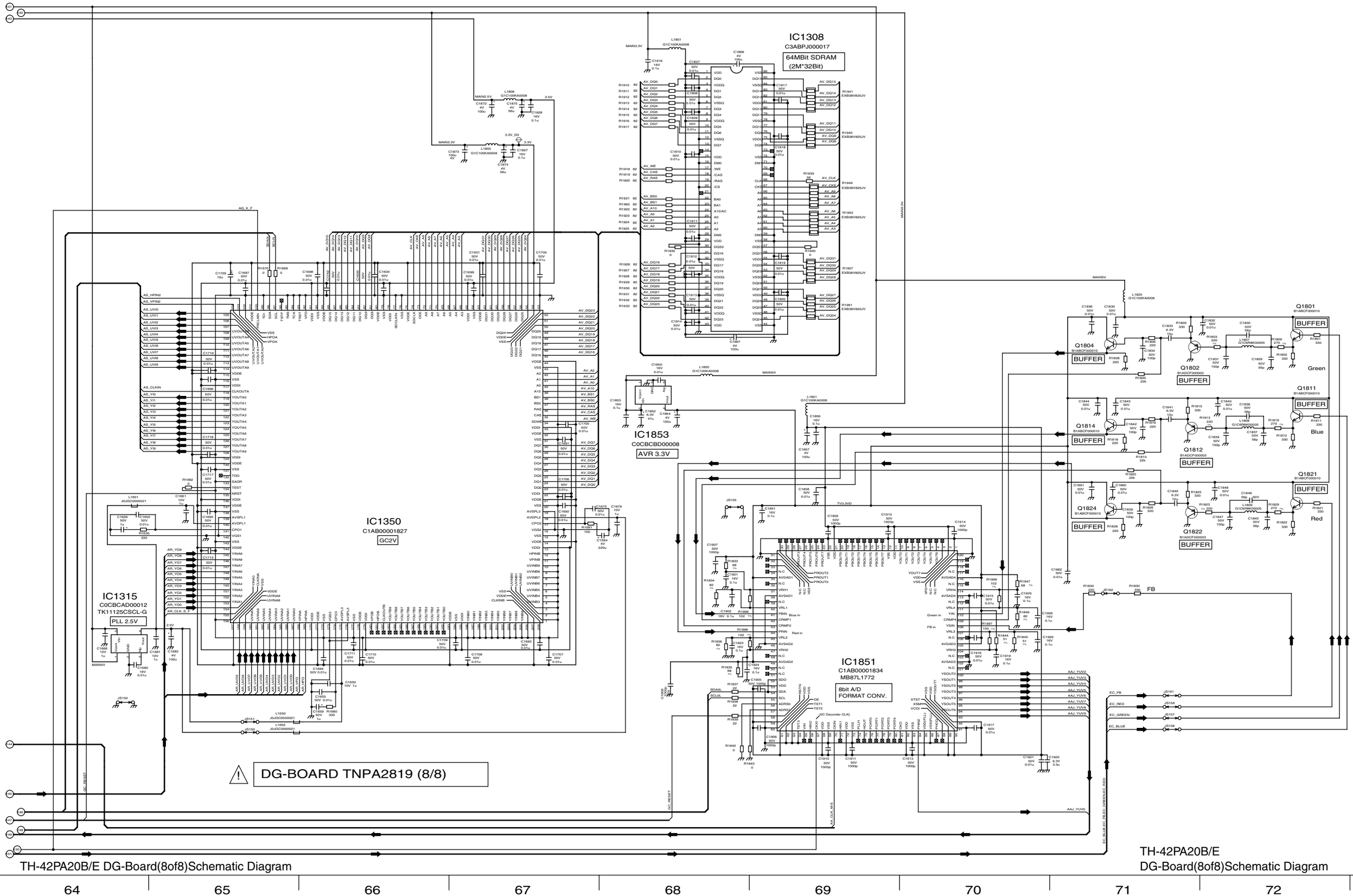
TH-42PA20B/E DG-Board(5of8)Schematic Diagram

37 38 39 40 41 42 43 44 45



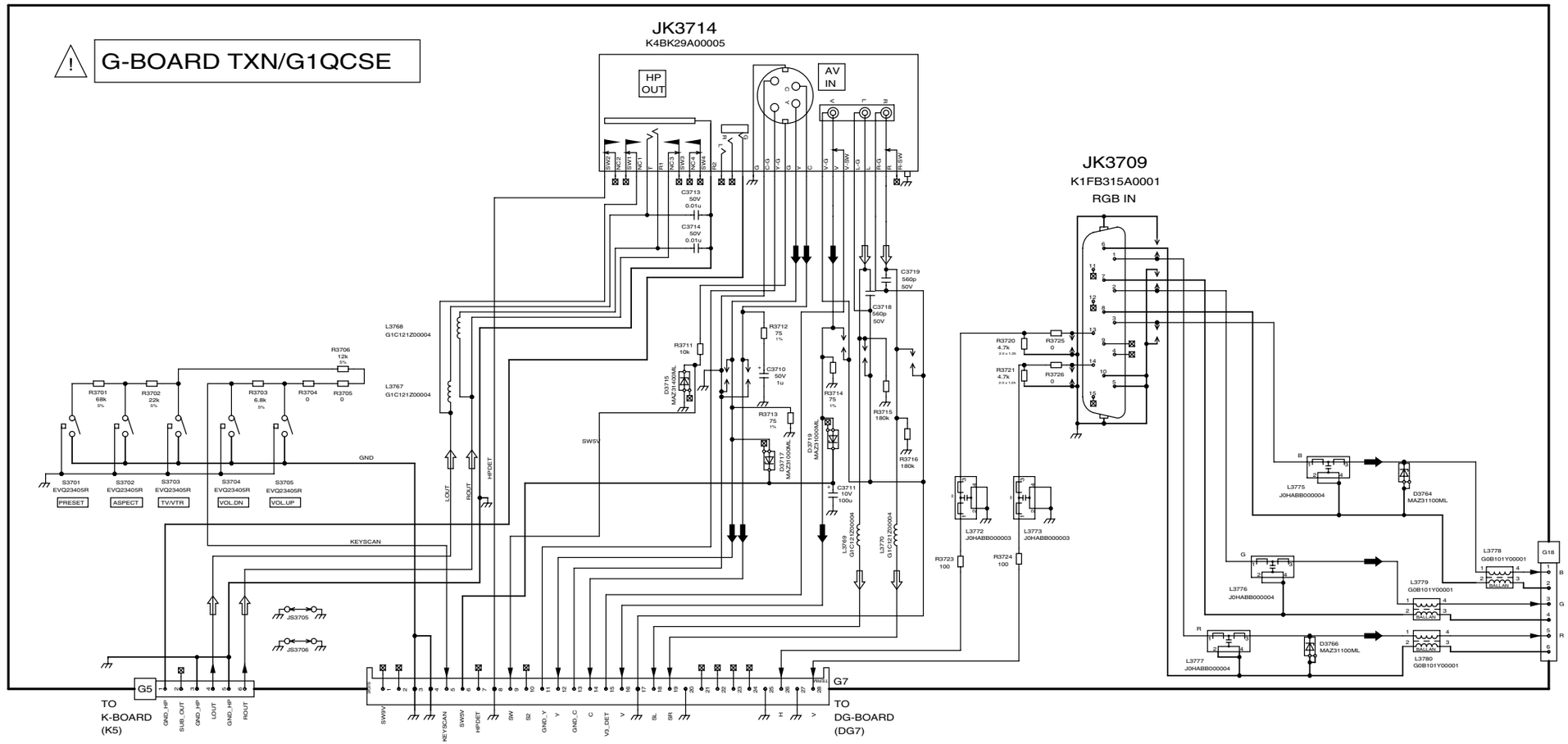
46	47	48	49	50	51	52	53	54

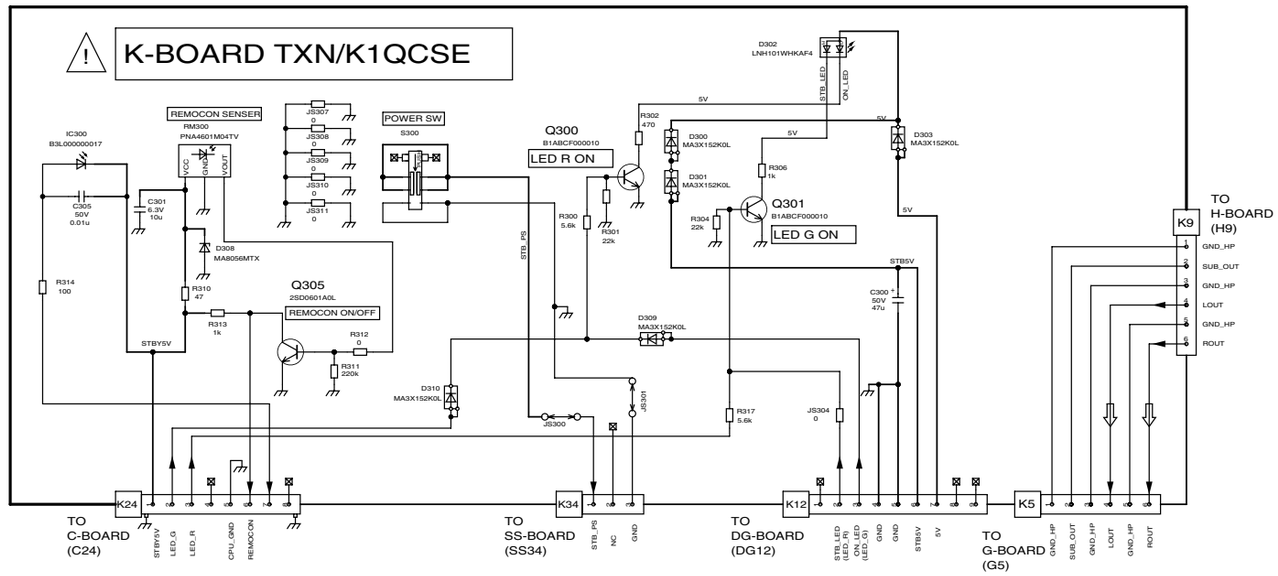

IC1306
C0DBEZG00004
AVR 2.5V
IC1322
C0CBCAD00012
TK11125CSCL-G
AVR 2.5V
IC1324
C0CBCAD00012
TK11125CSCL-G
AVR 2.5V
IC1800
C0JBAZ001488
C0JBAZ000280
BUFFER
IC1302
C1AB00001703
GC2S+
IC1321
C3ABPJ000048
64MBit SDRAM
(2M*32Bit)
IC1750
C0JBAS000061
SWITCHING
Q1800
UNR221500L
PLL_A
for FRONT
PLL_C
For FC READ
PLL_B
For SDRAM
AD Macro
< SLAVE > 24 / 2A (TEST=0)
28 / 26 (TEST=1)
Q1750
2SD0601A0L
BUFFER
Q1751
2SD0601A0L
Q1752
2SD0601A0L
BUFFER
Q1753
2SD0601A0L
Q1754
UNR221500L
Q1755
2SB0709A0L
BUFFER
Q1756
2SD0601A0L
BUFFER
Q1757
XN0650100L
Q1758
2SD0601A0L
Q1759
2SB0709A0L
BUFFER
Q1760
2SD0601A0L
Q1761
2SB0709A0L
BUFFER
Q1762
2SB0709A0L
BUFFER
Q1763
2SD0601A0L
BUFFER
Q1764
2SD1030TL
BUFFER
Q1765
2SD1030TL
BUFFER
DG-BOARD TNPA2819 (7/8)



TH-42PA20B/E DG-Board(8of8)Schematic Diagram

TH-42PA20B/E
DG-Board(8of8)Schematic Diagram





TH-42PA20B/E
G and K-Board Schematic Diagram

TH-42PA20B/E
G and K-Board Schematic Diagram

H-BOARD TNPA2820(1/2)

TO K-BOARD (K9)

JK3100 K1FB121A0006

JK3101 K1FB121A0006

JK3102 K1FB121A0006

JK3103 K2HA307A0008

JK3104 K2HA204A0038

IC2200 AN17880A-E1

IC2001 AN77L08M-E1 AVR 8V

IC2207 C0ABBB000102 VAO

IC2206 C0ABBB000102 VAO

IC3101 C1AB00000948 SWITCHING

IC3100 C1AB00000421 SWITCHING

IC3102 TDA8601T/C1 SWITCHING

HP AMP

SOUND DEF

INVERTER

SWITCHING

BUFFER

AV MUTE

R AMP

L AMP

TH-42PA20B/E
H-Board(1of2)Schematic Diagram

TH-42PA20B/E
H-Board(1of2)Schematic Diagram

IC2652
C2HBZE000003
3D SURROUND &SOUND ENHANCEMENT

IC2670
C0JBAZ000855
BUFFER

IC2653
C0CBCAD00006
AVR 2.5V

IC2654
C0JBAZ001834
DUAL BUS SWITCH

IC2002
C1AB00001883
MSP

IC2003
C0DBEZE00002
AVR 5V

IC3290
C1AB00000441
EXP I/O PORT

IC3200
C1AB00000459
AV SW

TO T-BOARD (T10)

TO DG-BOARD (DG1)

POWER

IIC

Audio Out

MainVideo

SubVideo

AV4C

Controll

IDTV

AV3_input

EC_RGB

H-BOARD TNPA2820(2/2)

TH-42PA20B/E
H-Board(2of2)Schematic Diagram

TH-42PA20B/E
H-Board(2of2)Schematic Diagram

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

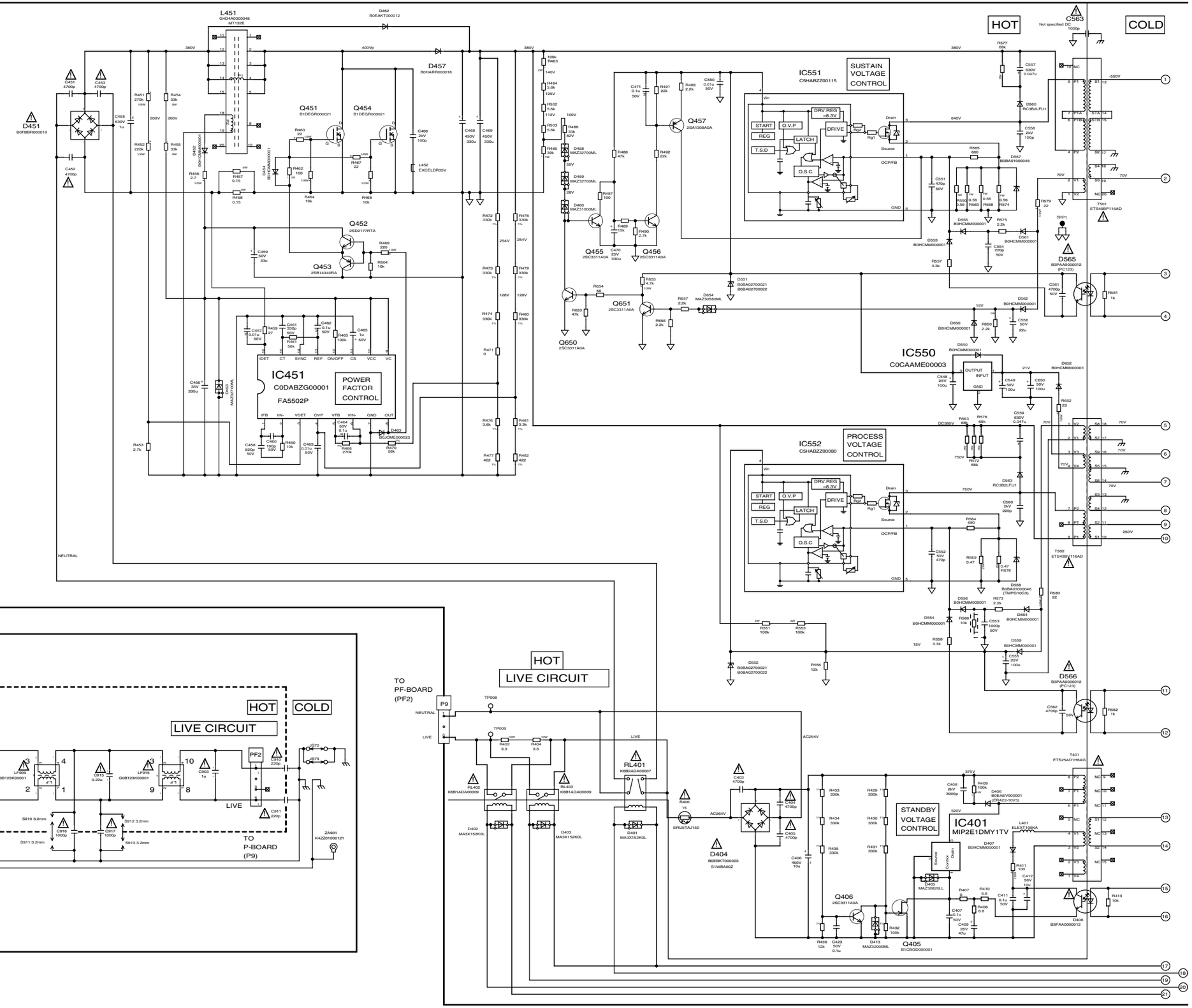
Notes:

1. **Resistor**
   All resistors are cabon 1/4W resistor, unless marked as follows:
   Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
   - ◯ : Nonflammable
   - △ : Solid
   - ◪ : Wire Wound
   - ⊠ : Metal Oxide
   - ◎ : Metal Film
   - ⊗ : Fuse**:**
2. **Capacitor**
   All capacitors are ceramic 50V capacitor, unless marked as follows:
   Unit of capacitance is μF, unless otherwise noted.
   - ⊗ : Temperature Compensation
   - Ⓜ : Polyester
   - ⓜ : Metalized Polyester
   - ⊠ : Polypropylene
   - +| : Electrolytic
   - NP| : Bipolar
   - Ⓣ : Dipped Tantalum
   - Ⓩ : Z-Type
3. Coil
   Unit of inductance is μF, unless otherwise noted.
4. Test Point
   - ⚲ : Test Point position
5. Earth Symbol
   - ⏚ : Chassis Earth (Cold)
   - ⏚ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   - Power Source AC220-240V, 50/60Hz
   - Receiving Signal ..... Colour Bar signal (RF)
   - All customer's controls ..... Maximum positions
7. Number in red circle indicates waveform nember.
   (See waveform pattern table.)
8. When arrow mark (↗) is found, connection is easily found from the direction of arrow
9. Indicates the major signal flow. : Video ➡ Audio ⇨
10. This schematic diagram is the latest at the time of printing and subject to change without notice.

Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
      Connect the earth of instruments to the earth connection of the circuit being measured.
   d. Make sure to disconnect the power plug before removing the chassis.
2. Following diodes are interchangeable.
   MA150- MA162 (Replacement part)

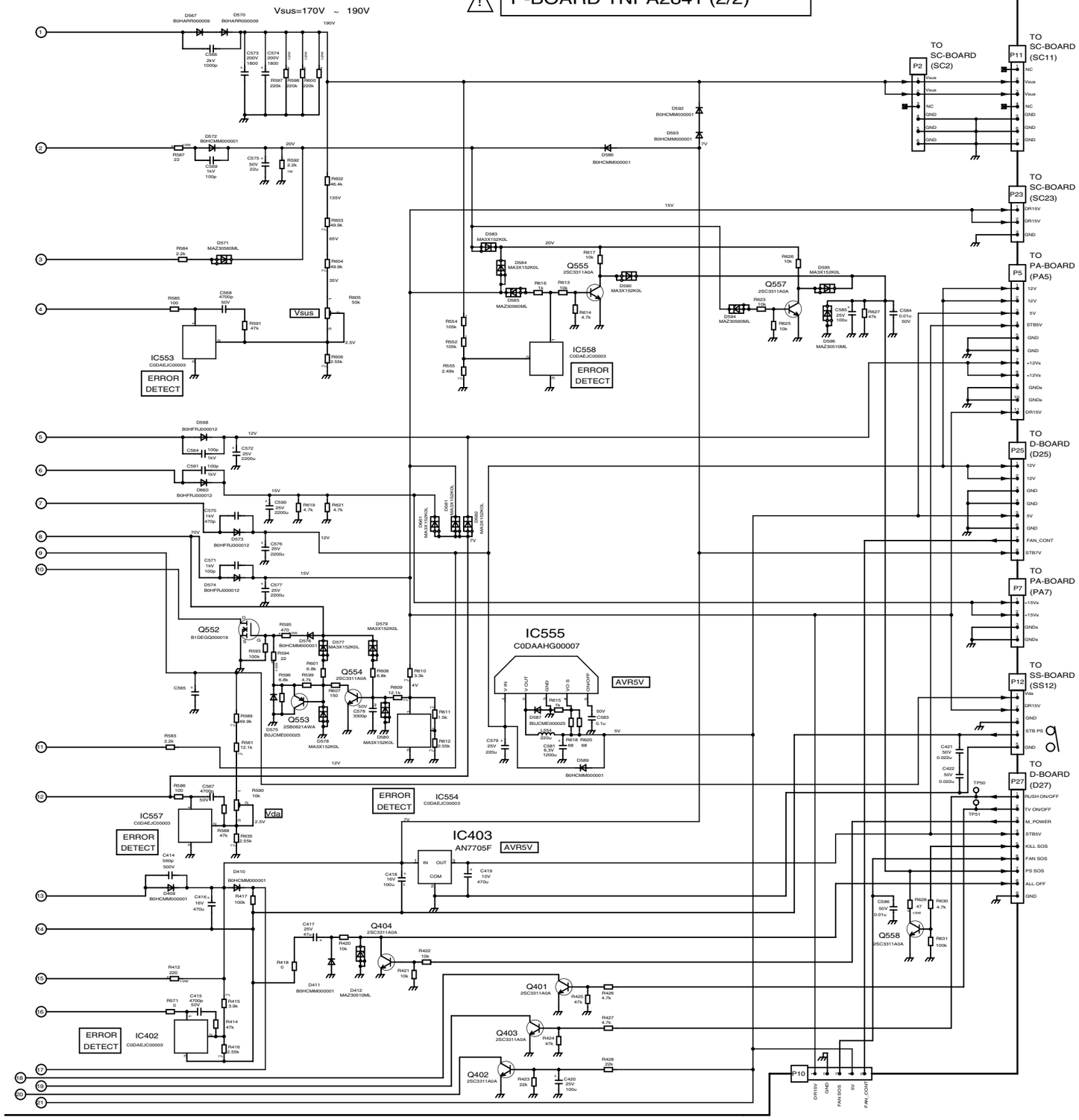
P-BOARD TNPA2841 (1/2)



TH-42PA20B/E
P and PF-Board(1of2)Schematic Diagram

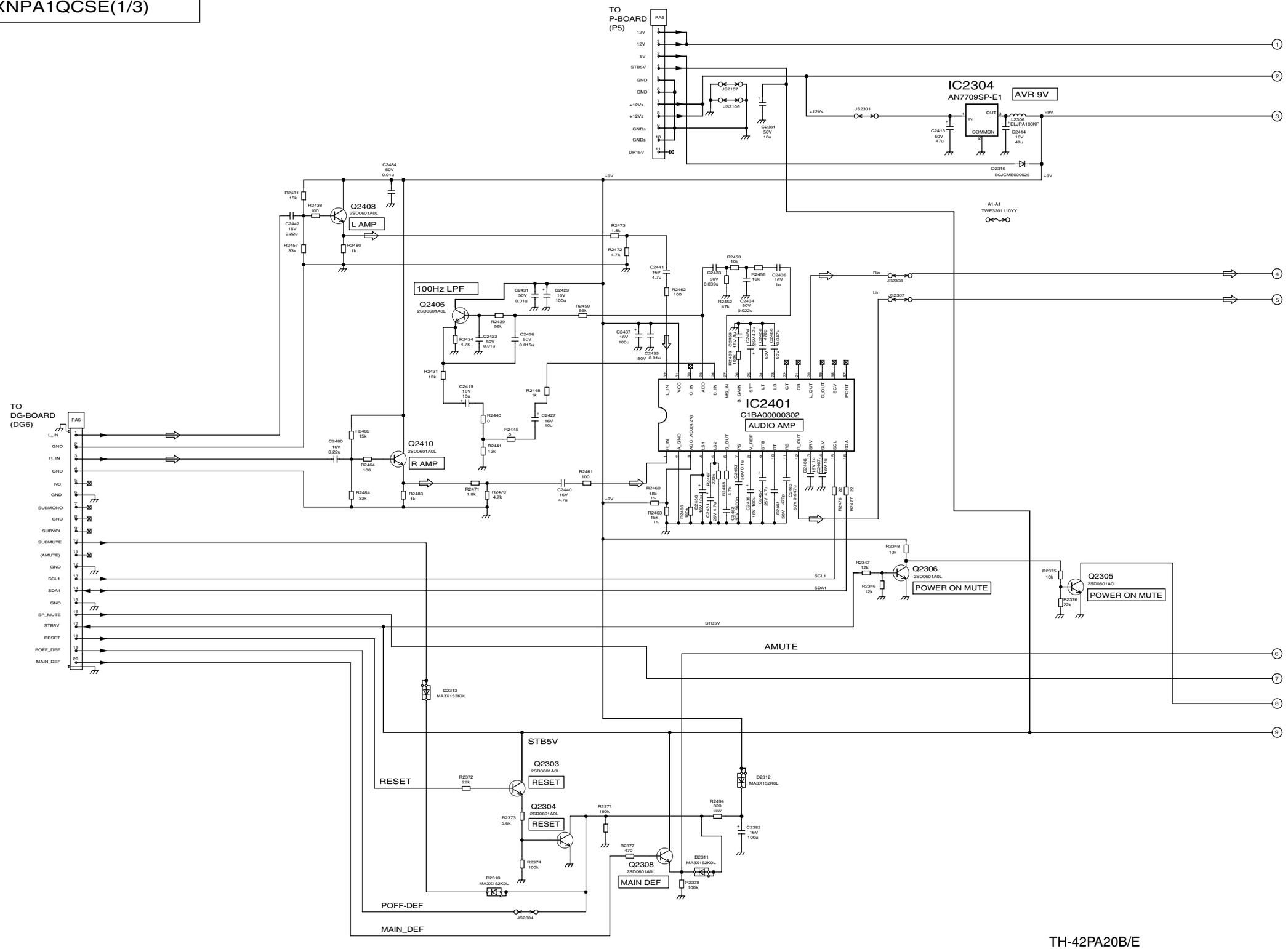
TH-42PA20B/E P and PF-Board(1of2)Schematic Diagram

P-BOARD TNPA2841 (2/2)



TH-42PA20B/E
P and PF-Board(2of2)Schematic Diagram

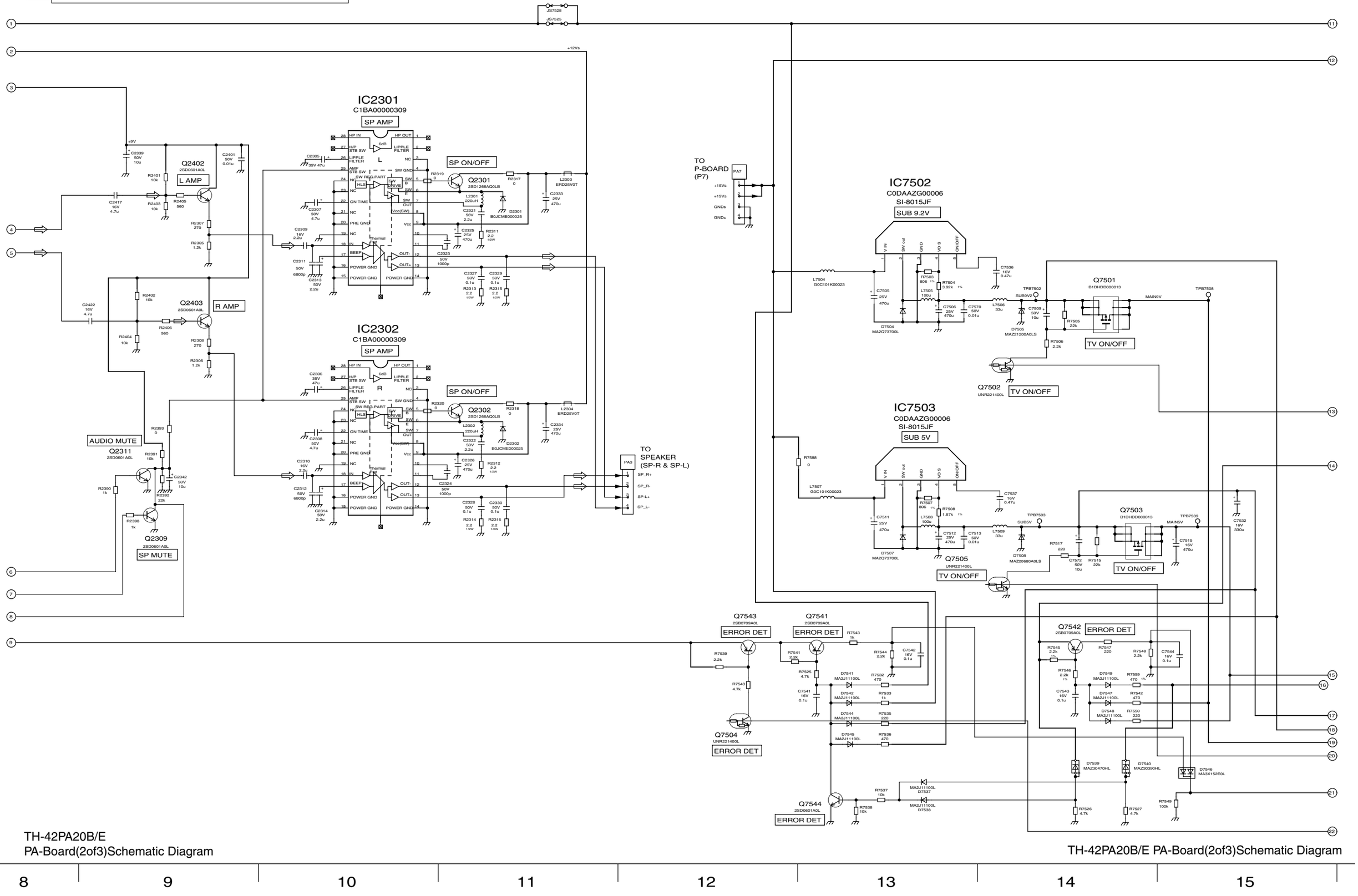
PA-BOARD TXNPA1QCSE(1/3)



TH-42PA20B/E
PA-Board(1of3)Schematic Diagram

TH-42PA20B/E
PA-Board(1of3)Schematic Diagram

PA-BOARD TXNPA1QCSE(2/3)



TH-42PA20B/E
PA-Board(2of3)Schematic Diagram

TH-42PA20B/E PA-Board(2of3)Schematic Diagram

PA-BOARD TXNPA1QCSE(3/3)

IC7551
C0DAAZG00006
SI-8015JF
ODU 15V/11V

IC7504
C0DAAZG00006
SI-8015JF
MAIN 3.3V

IC7505
C0DAAZG00006
SI-8015JF
MAIN 2.5V

IC7581
C0DBAMA00014
PWM SWITCHING REGULATOR

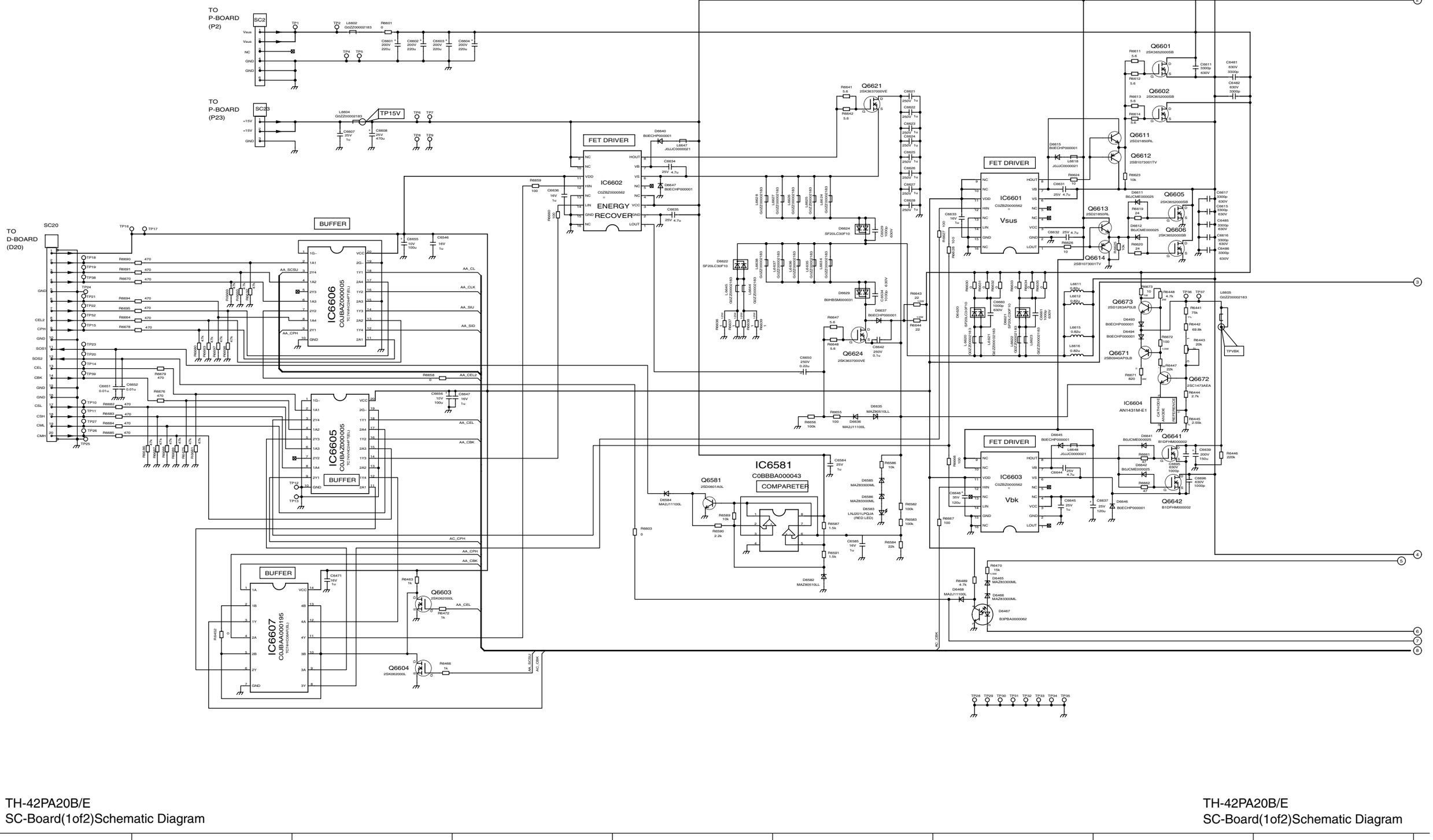
Q7552 UNR221N00L — ODU ON/OFF
Q7553 UNR221N00L — ODU ON/OFF
Q7510 UNR221400L — TV ON/OFF
Q7509 2SD0601A0L — TV ON/OFF
Q7581 UNR521100L — INV.
Q7582 B1ABPF000005 — INV.

TO D-BOARD (D12)
TO D-BOARD (D4)
TO DG-BOARD (DG2)
TO DG-BOARD (DG8)

TH-42PA20B/E PA-Board(3of3)Schematic Diagram

TH-42PA20B/E
PA-Board(3of3)Schematic Diagram

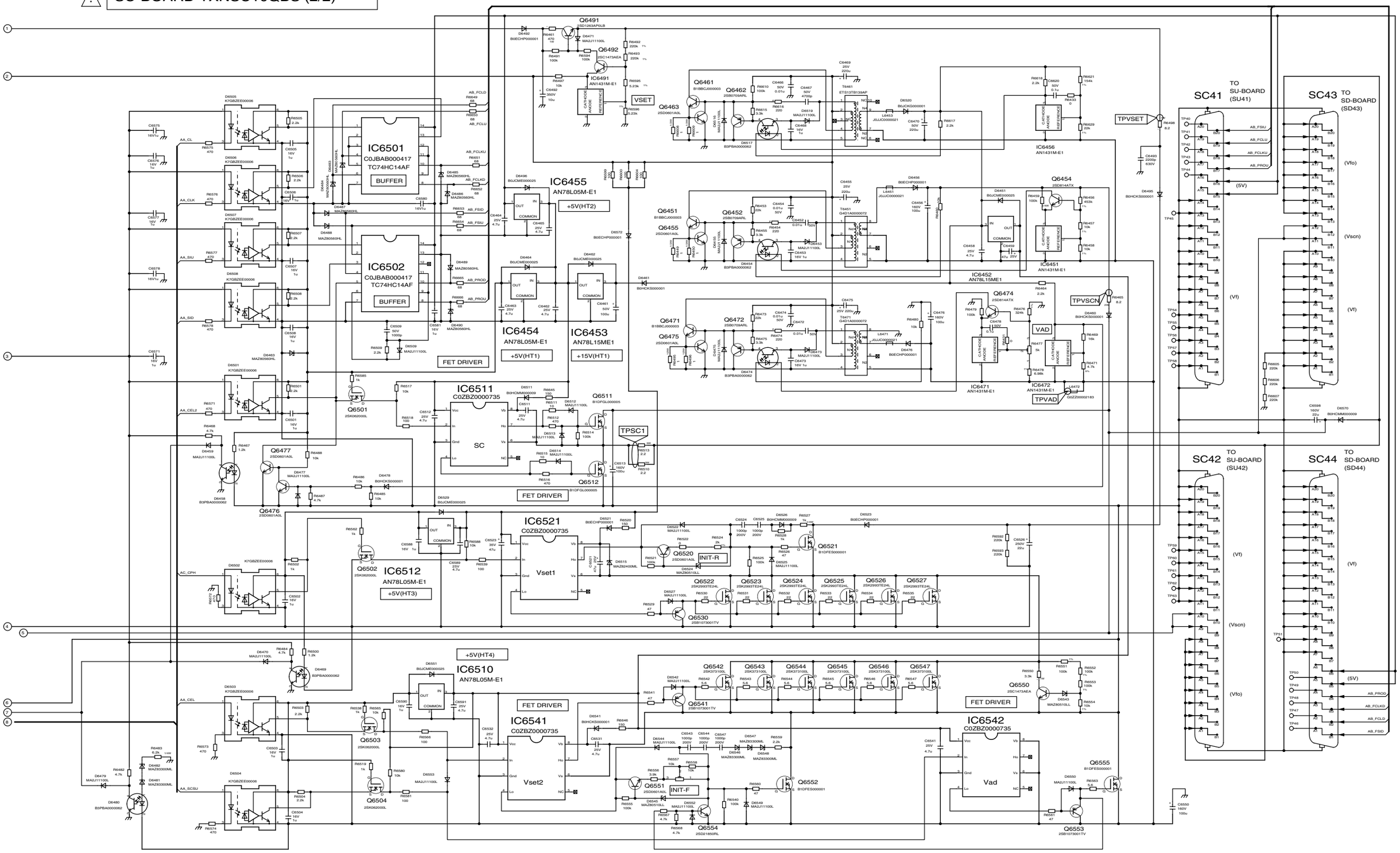
SC-BOARD TXNSC10QBS (1/2)



TH-42PA20B/E
SC-Board(1of2)Schematic Diagram

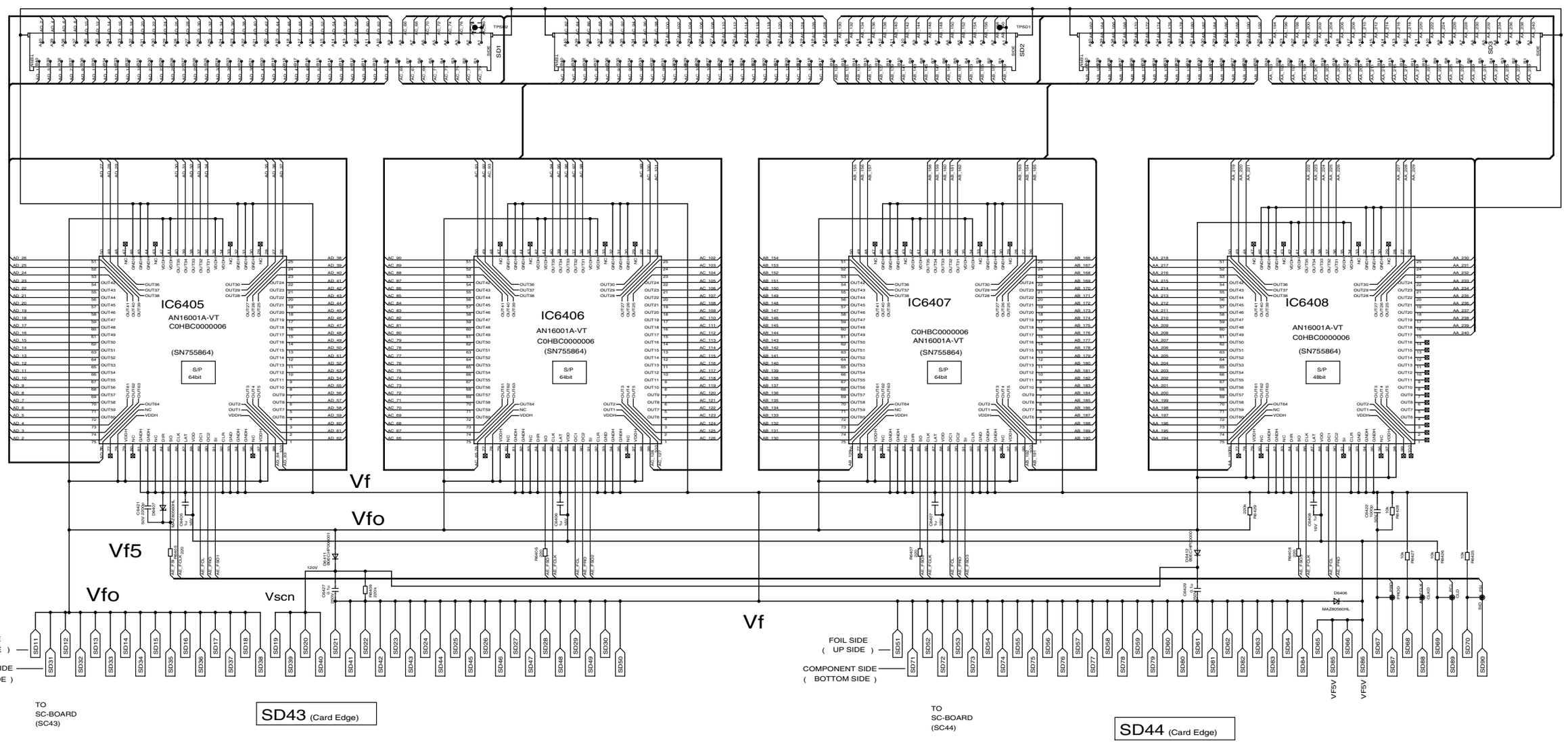
TH-42PA20B/E
SC-Board(1of2)Schematic Diagram

SC-BOARD TXNSC10QBS (2/2)



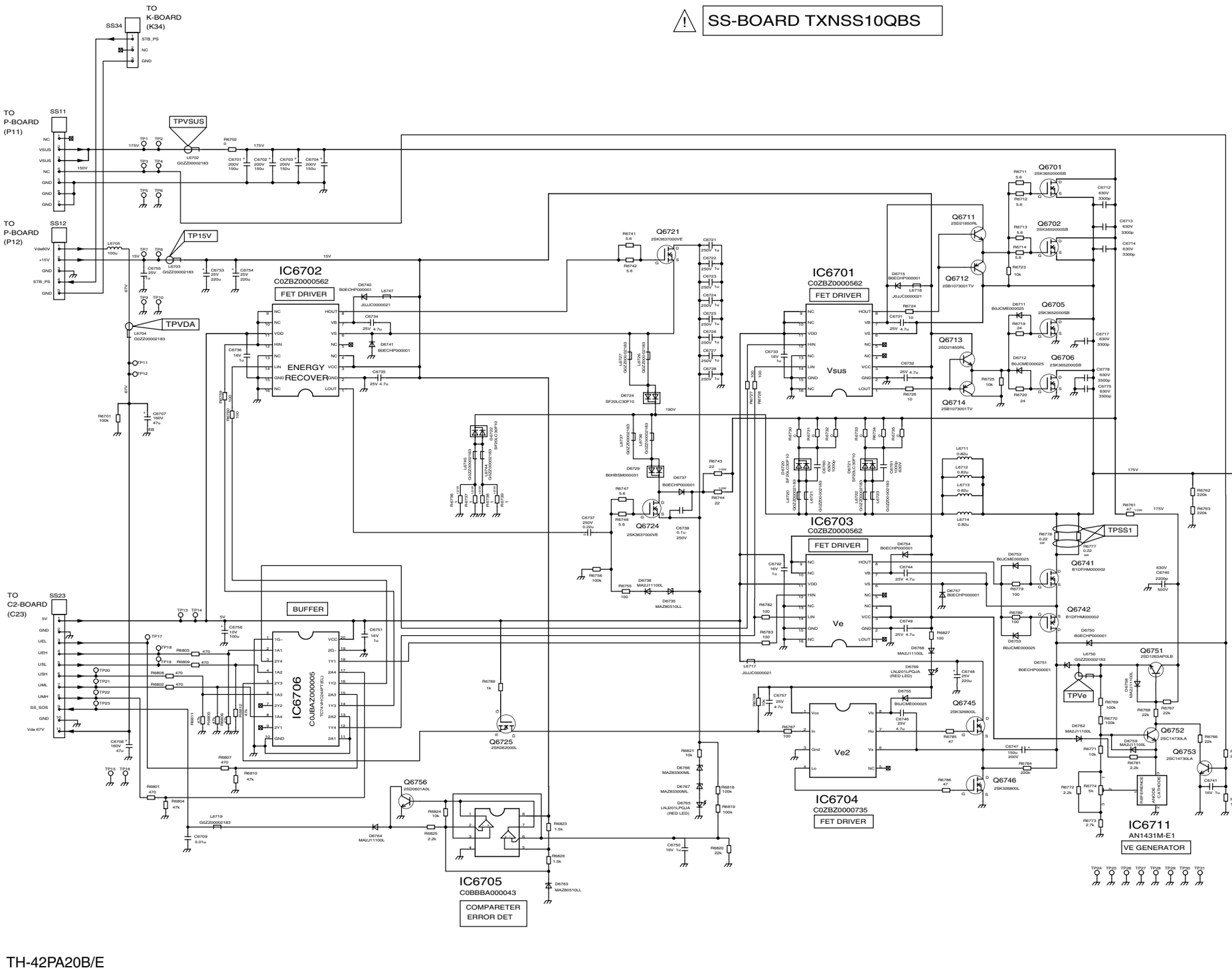
⚠ SD-BOARD TNPA2958

DOWN



TH-42PA20B/E
SD-Board Schematic Diagram

TH-42PA20B/E
SD-Board Schematic Diagram

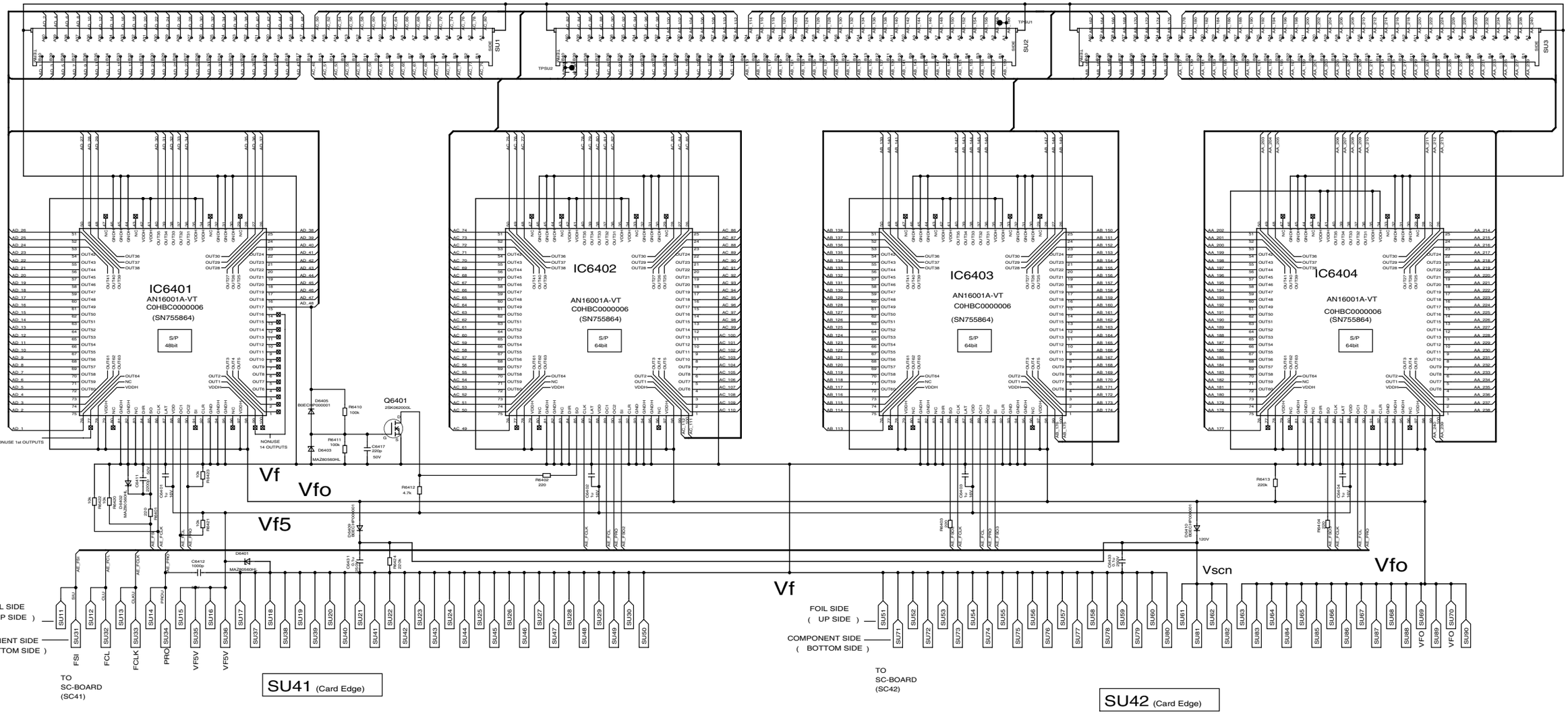


TH-42PA20B/E
SS,SS2 and SS3-Board Schematic Diagram

TH-42PA20B/E SS,SS2 and SS3-Board Schematic Diagram

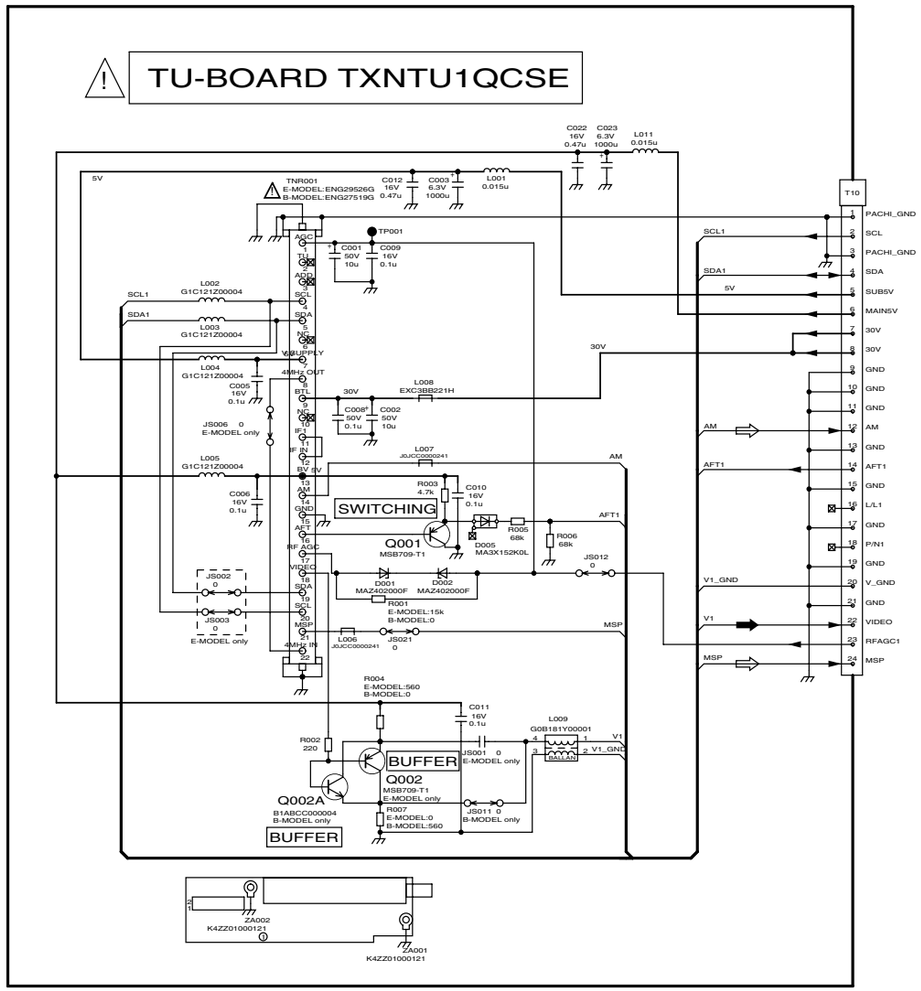
SU-BOARD TNPA2957

UP



TH-42PA20B/E
SU-Board Schematic Diagram

TH-42PA20B/E
SU-Board Schematic Diagram



TH-42PA20B/E
TU-Board Schematic Diagram

TH-42PA20B/E
TU-Board Schematic Diagram

14 Block and Schematic Diagrams

14.1. Schematic Diagram Notes

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
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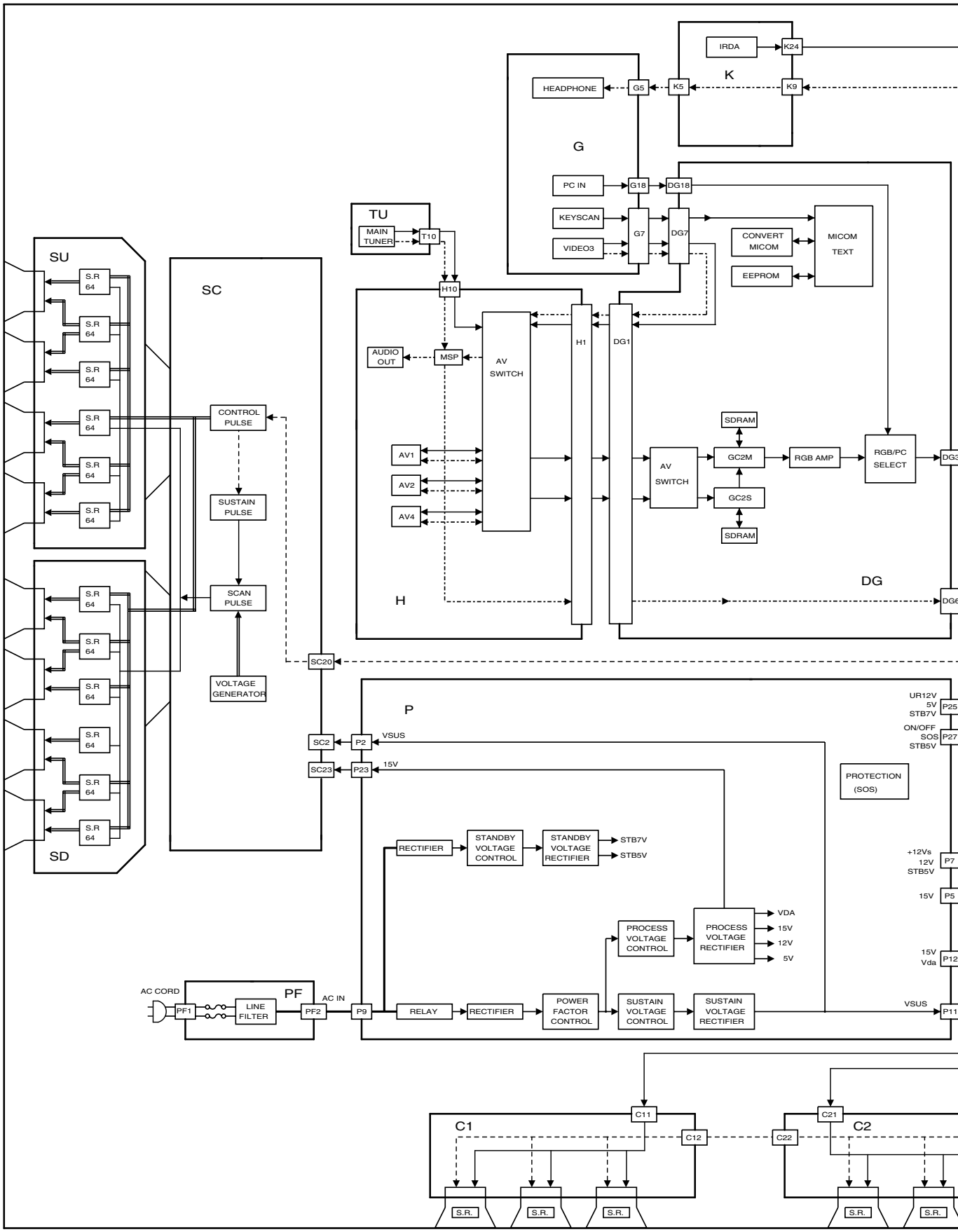
Notes:

1. **Resistor**
   All resistors are cabon 1/4W resistor, unless marked as follows:
   Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
   - ◯ : Nonflammable
   - △ : Solid
   - ▨ : Wire Wound
   - ⊠ : Metal Oxide
   - ◎ : Metal Film
   - ⊗ : Fuse**:**
2. **Capacitor**
   All capacitors are ceramic 50V capacitor, unless marked as follows:
   Unit of capacitance is μF, unless otherwise noted.
   - ⊗ : Temperature Compensation
   - Ⓜ : Polyester
   - ⓜ : Metalized Polyester
   - ⊠ : Polypropylene
   - + : Electrolytic
   - NP : Bipolar
   - Ⓣ : Dipped Tantalum
   - Ⓩ : Z-Type
3. Coil
   Unit of inductance is μF, unless otherwise noted.
4. Test Point
   - ⚲ : Test Point position
5. Earth Symbol
   - ⏚ : Chassis Earth (Cold)
   - ⏚ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
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   - Receiving Signal ..... Colour Bar signal (RF)
   - All customer's controls ..... Maximum positions
7. Number in red circle indicates waveform nember.
   (See waveform pattern table.)
8. When arrow mark (↗) is found, connection is easily found from the direction of arrow
9. Indicates the major signal flow. : Video ➡ Audio ⇨
10. This schematic diagram is the latest at the time of printing and subject to change without notice.

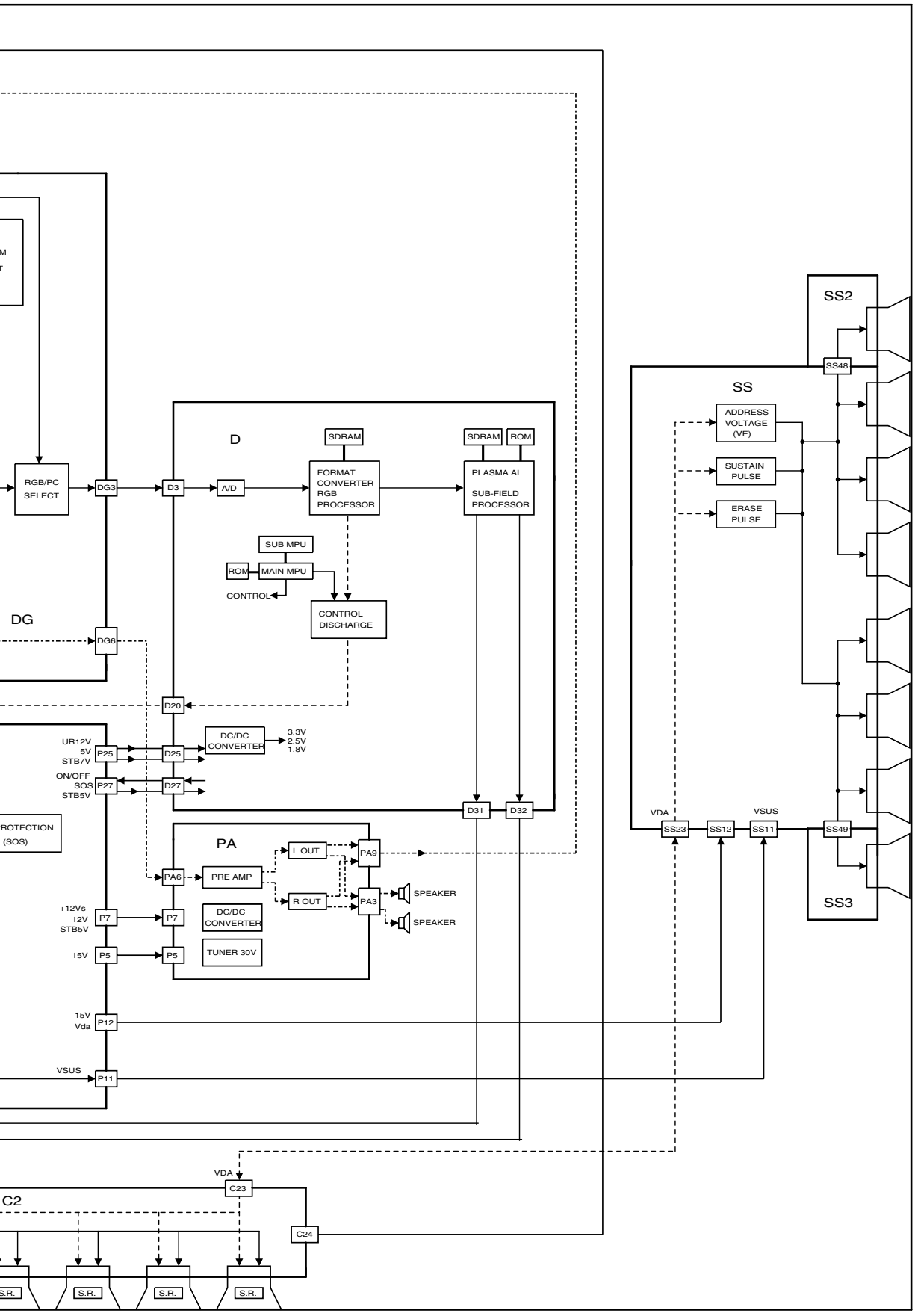
Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
      Connect the earth of instruments to the earth connection of the circuit being measured.
   d. Make sure to disconnect the power plug before removing the chassis.
2. Following diodes are interchangeable.
   MA150- MA162 (Replacement part)

14.2. Main Block Diagram

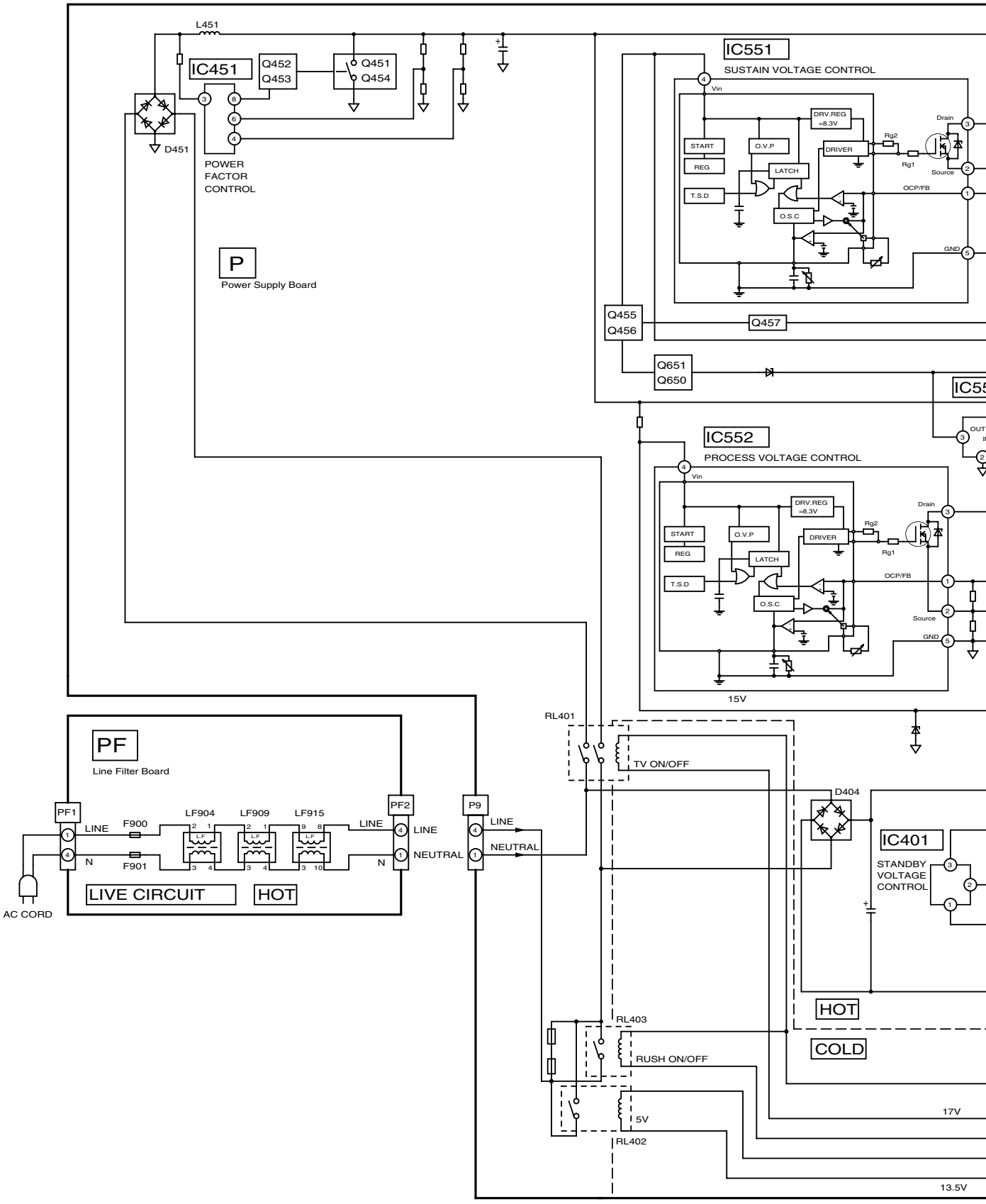


TH-42PA20B/E
Main Block Diagram

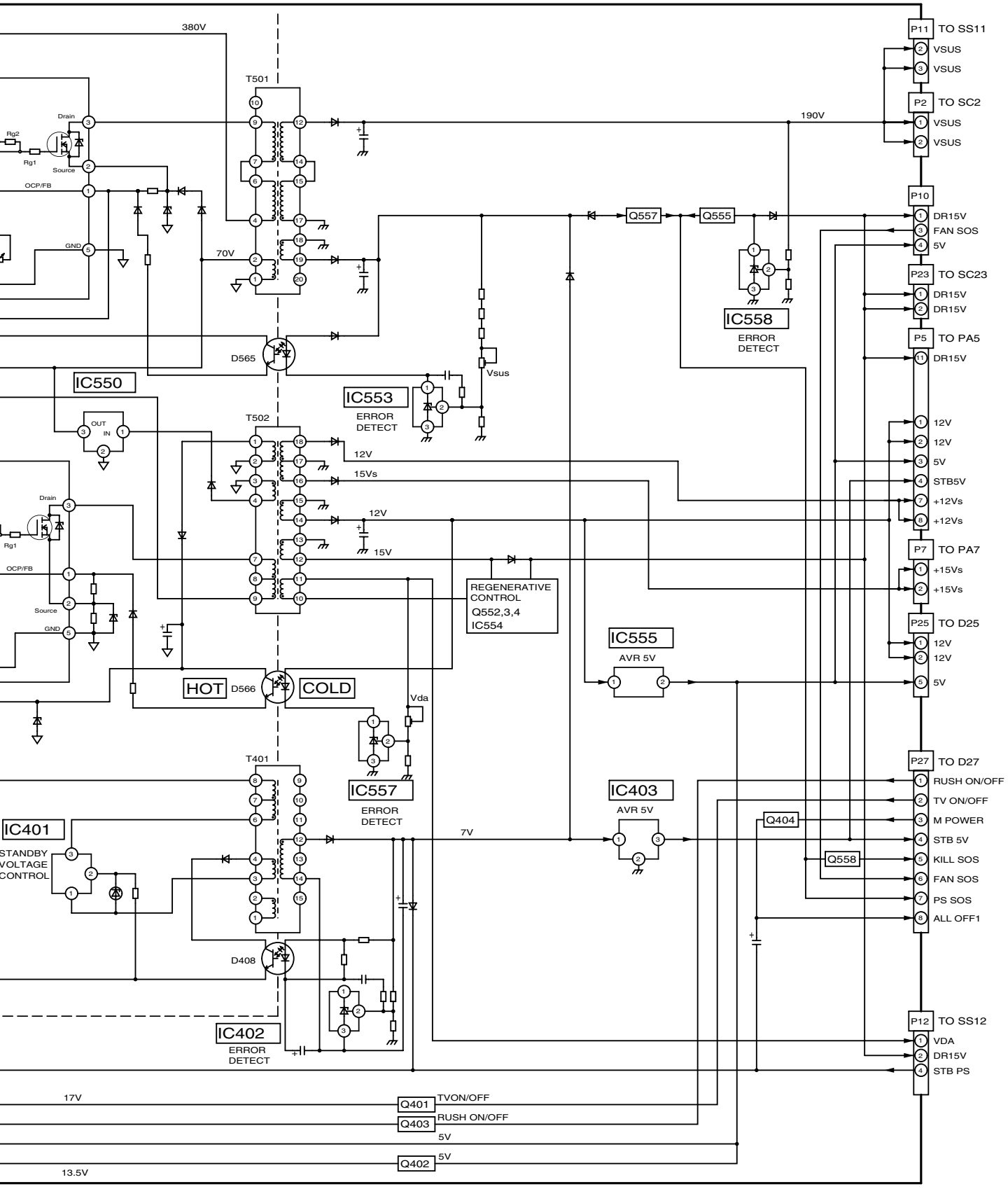


TH-42PA20B/E
Main Block Diagram

14.3. P and PF-Board Block Diagram

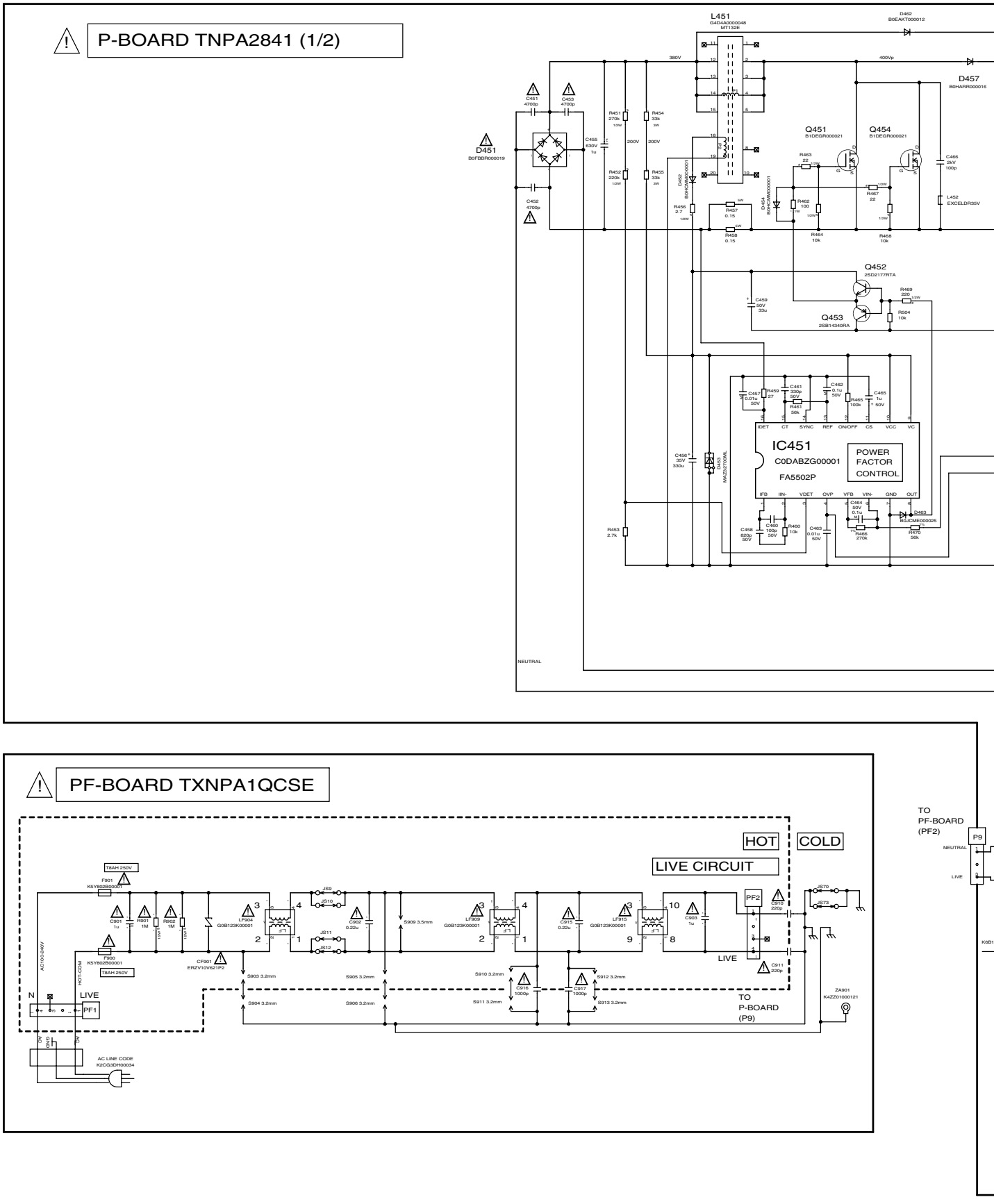


TH-42PA20B/E
P and PF-Board Block Diagram

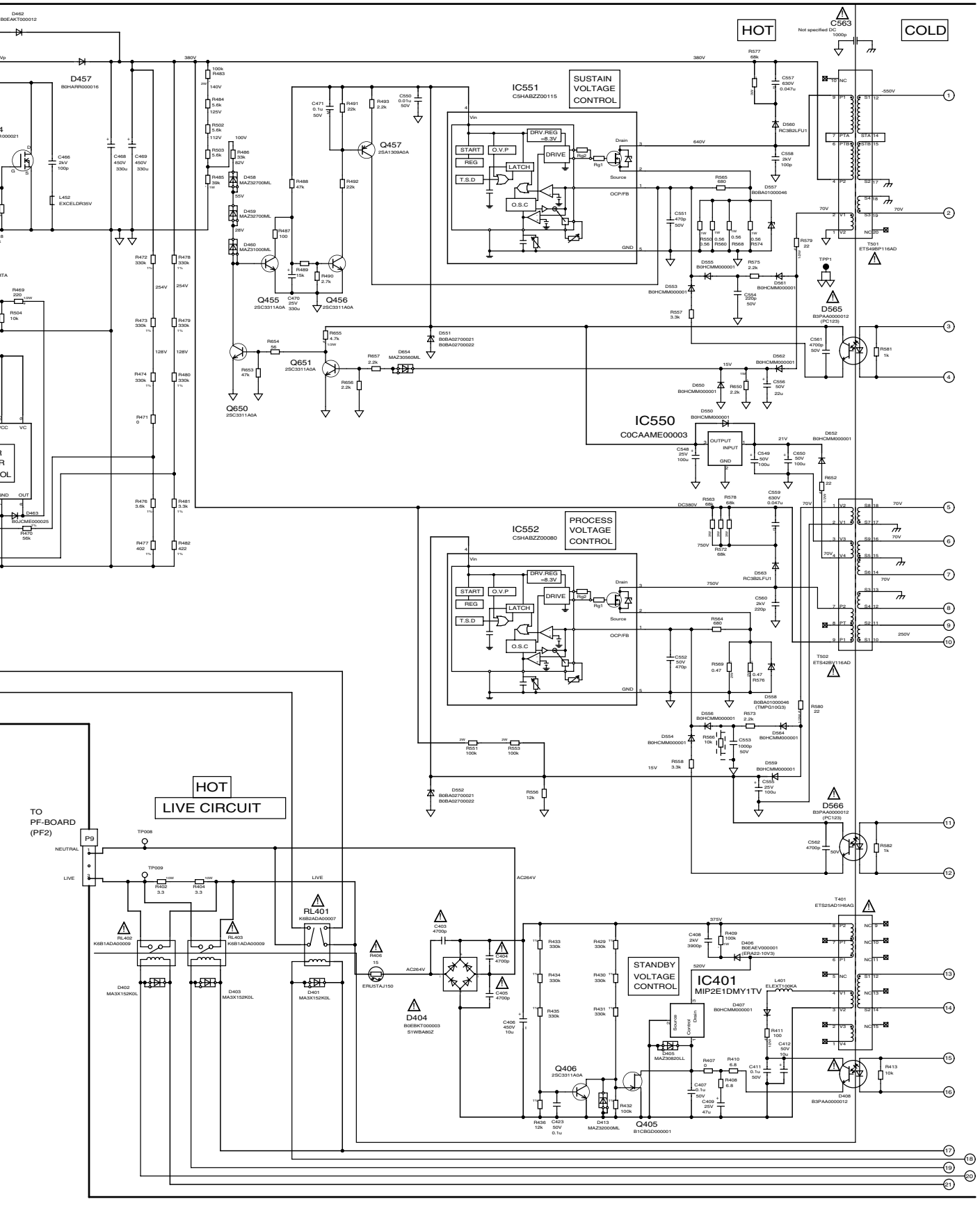


TH-42PA20B/E
P and PF-Board Block Diagram

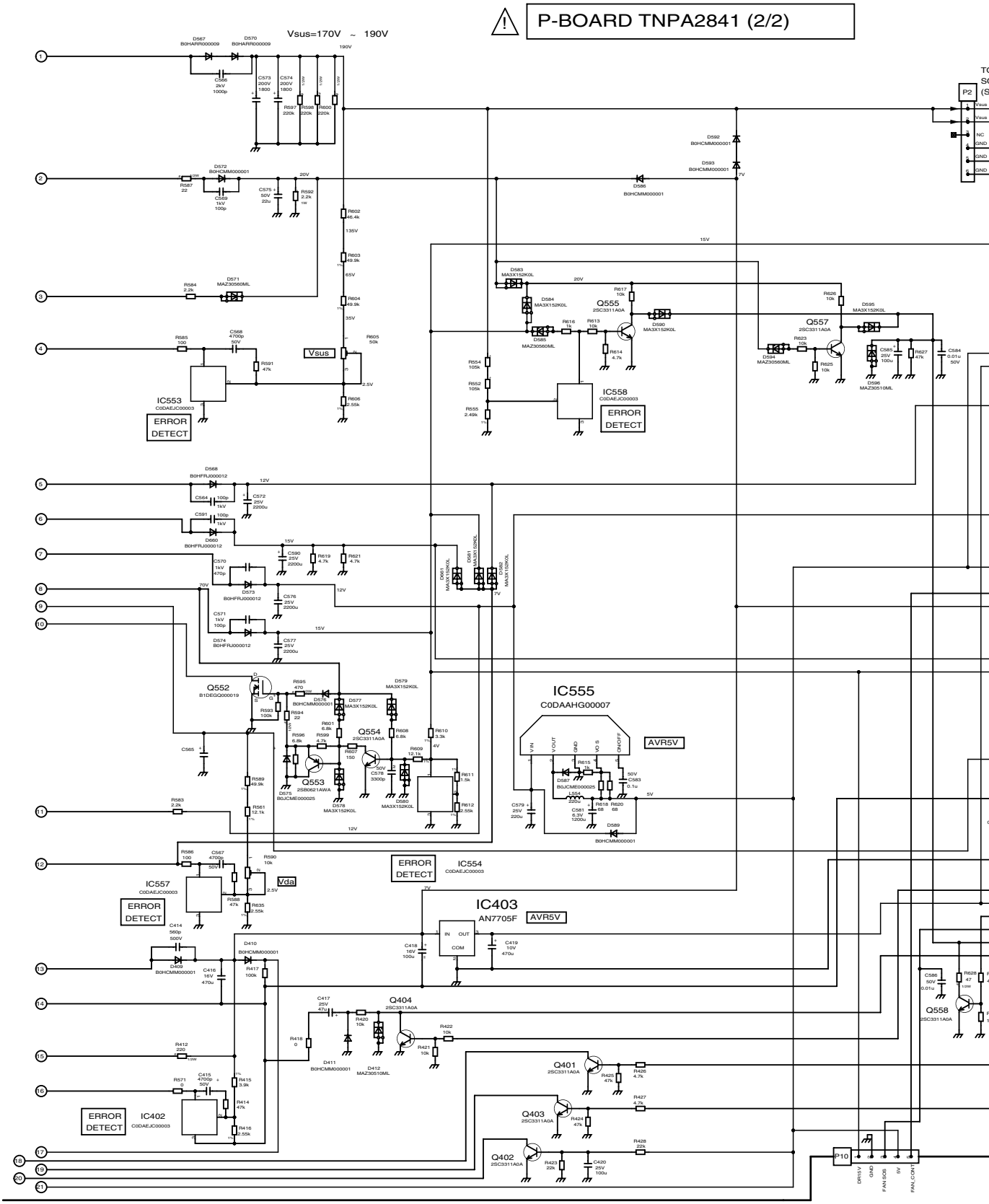
14.4. P and PF-Board (1 of 2) Schematic Diagram



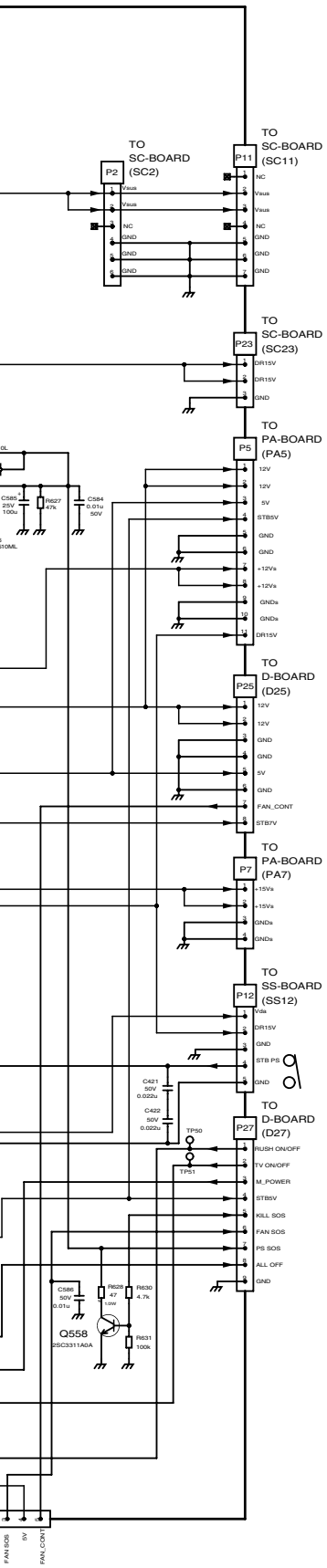
TH-42PA20B/E
P and PF-Board(1of2)Schematic Diagram


HOT
COLD
IC551
C5HABZZ00115
SUSTAIN VOLTAGE CONTROL
IC552
C5HABZZ00080
PROCESS VOLTAGE CONTROL
IC550
C0CAAME00003
IC401
MIP2E1DMY1TV
STANDBY VOLTAGE CONTROL
HOT
LIVE CIRCUIT
TO PF-BOARD (PF2)
P9
NEUTRAL
LIVE
RL401
K6B2ADA00007
RL402
K6B1ADA00009
RL403
K6B1ADA00009
D402
MA3X152K0L
D403
MA3X152K0L
D401
MA3X152K0L
D404
B0EBKT000003
S1WBA80Z
ERUSTAJ150
Q455
2SC3311A0A
Q456
2SC3311A0A
Q457
2SA1309A0A
Q650
2SC3311A0A
Q651
2SC3311A0A
Q406
2SC3311A0A
Q405
B1CBGD000001
D458
MAZ32700ML
D459
MAZ32700ML
D460
MAZ31000ML
D415
MAZ32000ML
D405
MAZ30820LL
D551
B0BA02700021
B0BA02700022
D552
B0BA02700021
B0BA02700022
D553
B0HCMM000001
D554
B0HCMM000001
D555
B0HCMM000001
D556
B0HCMM000001
D557
B0BA01000046
D558
B0BA01000046 (TMPG10G3)
D559
B0HCMM000001
D560
RC3B2LFU1
D561
B0HCMM000001
D562
B0HCMM000001
D563
RC3B2LFU1
D564
B0HCMM000001
D565
B3PAA0000012 (PC123)
D566
B3PAA0000012 (PC123)
D650
B0HCMM000001
D652
B0HCMM000001
D654
MAZ30560ML
T501
ETS49BP116AD
T502
ETS42BV116AD
T401
ETS25AD1H6AG
L401
ELEXT1006A
L452
EXCELDR35V
D462
B0EAKT000012
D457
B0HARR000016
D463
B0JCME000025
C563
Not specified DC
1000p
C557
630V
0.047u
C558
2kV
100p
C559
630V
0.047u
C560
2kV
220p
C561
4700p
50V
C562
4700p
50V
C548
25V
100u
C549
50V
100u
C550
50V
100u
C551
470p
50V
C552
50V
470p
C553
1000p
50V
C554
220p
50V
C555
50V
22u
C556
50V
22u
C557
630V
0.047u
C558
2kV
100p
C559
630V
0.047u
C560
2kV
220p
C561
4700p
50V
C562
4700p
50V
C563
Not specified DC
1000p
C564
25V
100u
C565
25V
100u
C566
4700p
50V
C567
25V
100u
C568
4700p
50V
C569
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C570
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C587
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C588
0.47

14.5. P and PF-Board (2 of 2) Schematic Diagram



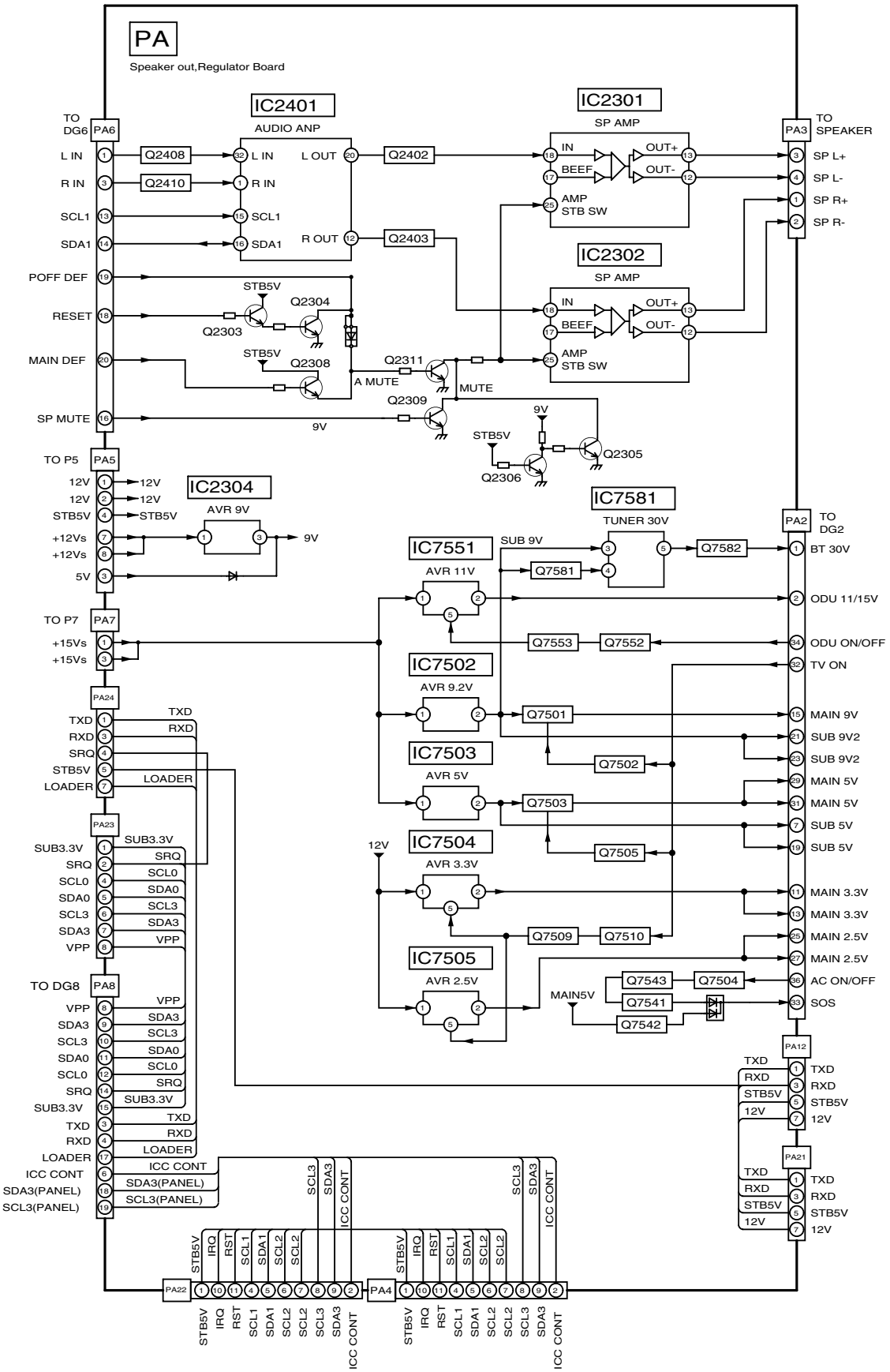
TH-42PA20B/E
P and PF-Board(2of2)Schematic Diagram



TH-42PA20B/E
P and PF-Board(2of2)Schematic Diagram

14 | 15 | 16 | 17 | 18

14.6. PA-Board Block Diagram

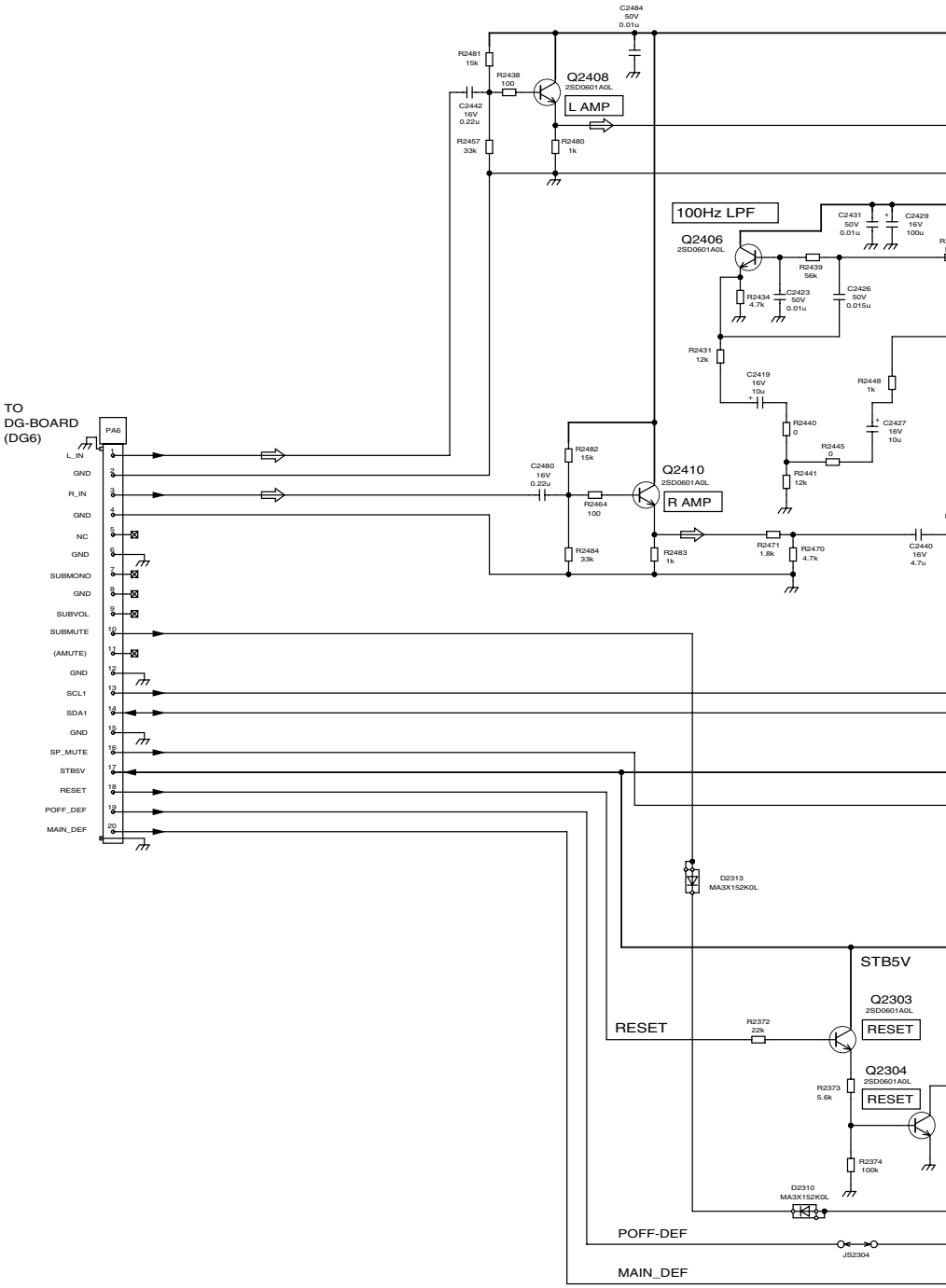


TH-42PA20B/E
PA-Board Block Diagram

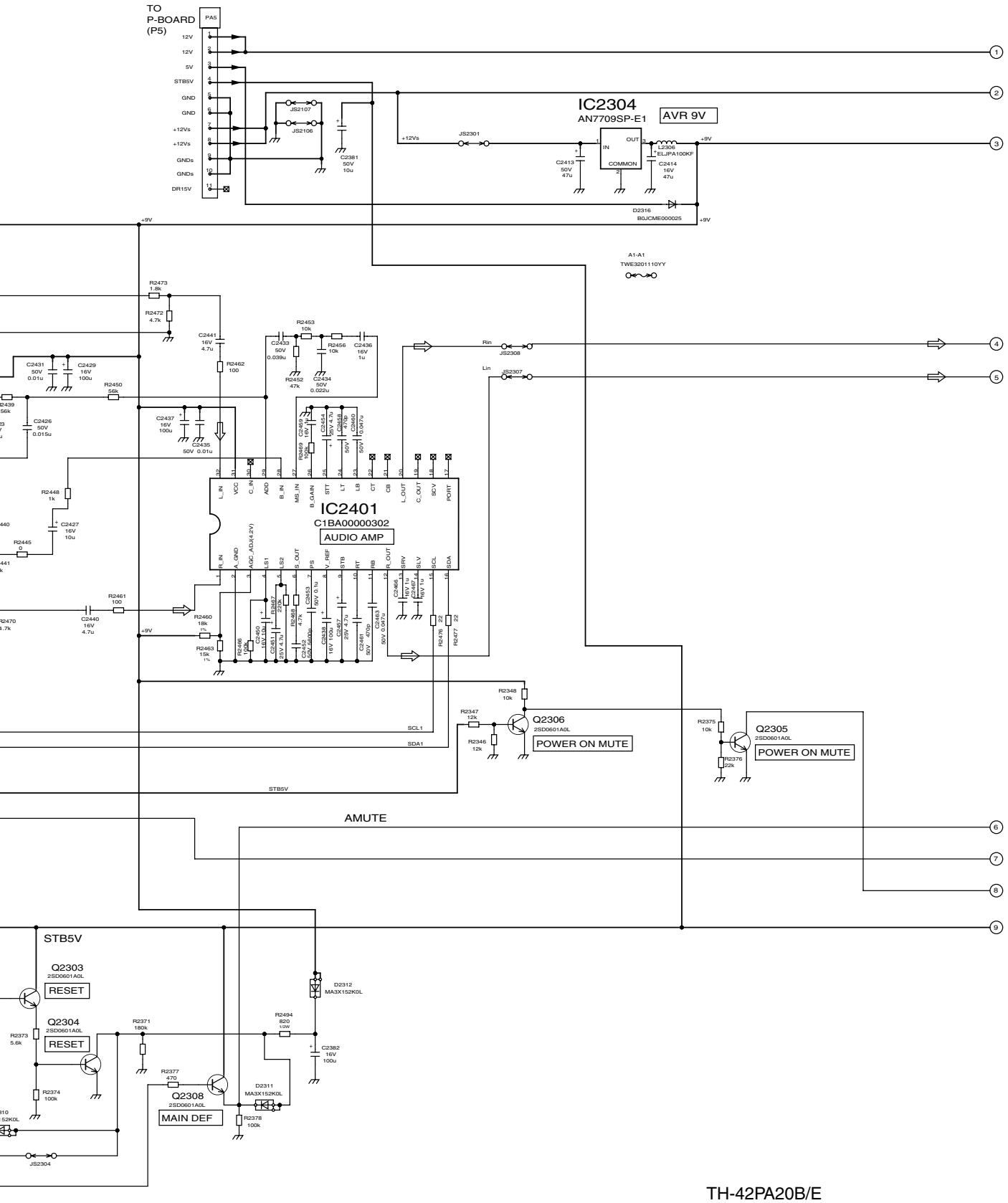
TH-42PA20B/E
PA-Board Block Diagram

14.7. PA-Board (1 of 3) Schematic Diagram

PA-BOARD TXNPA1QCSE(1/3)

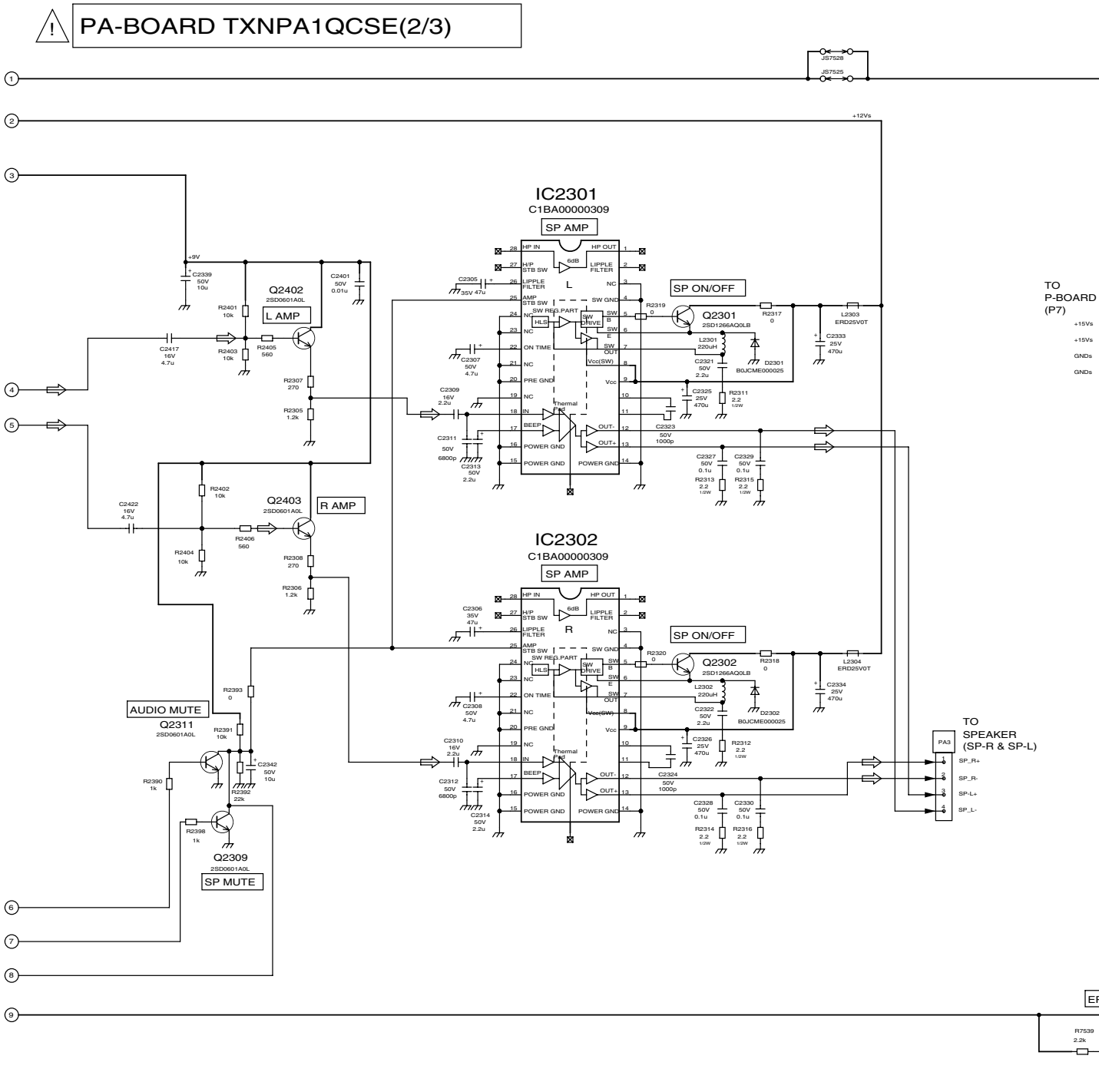


TH-42PA20B/E
PA-Board(1of3)Schematic Diagram

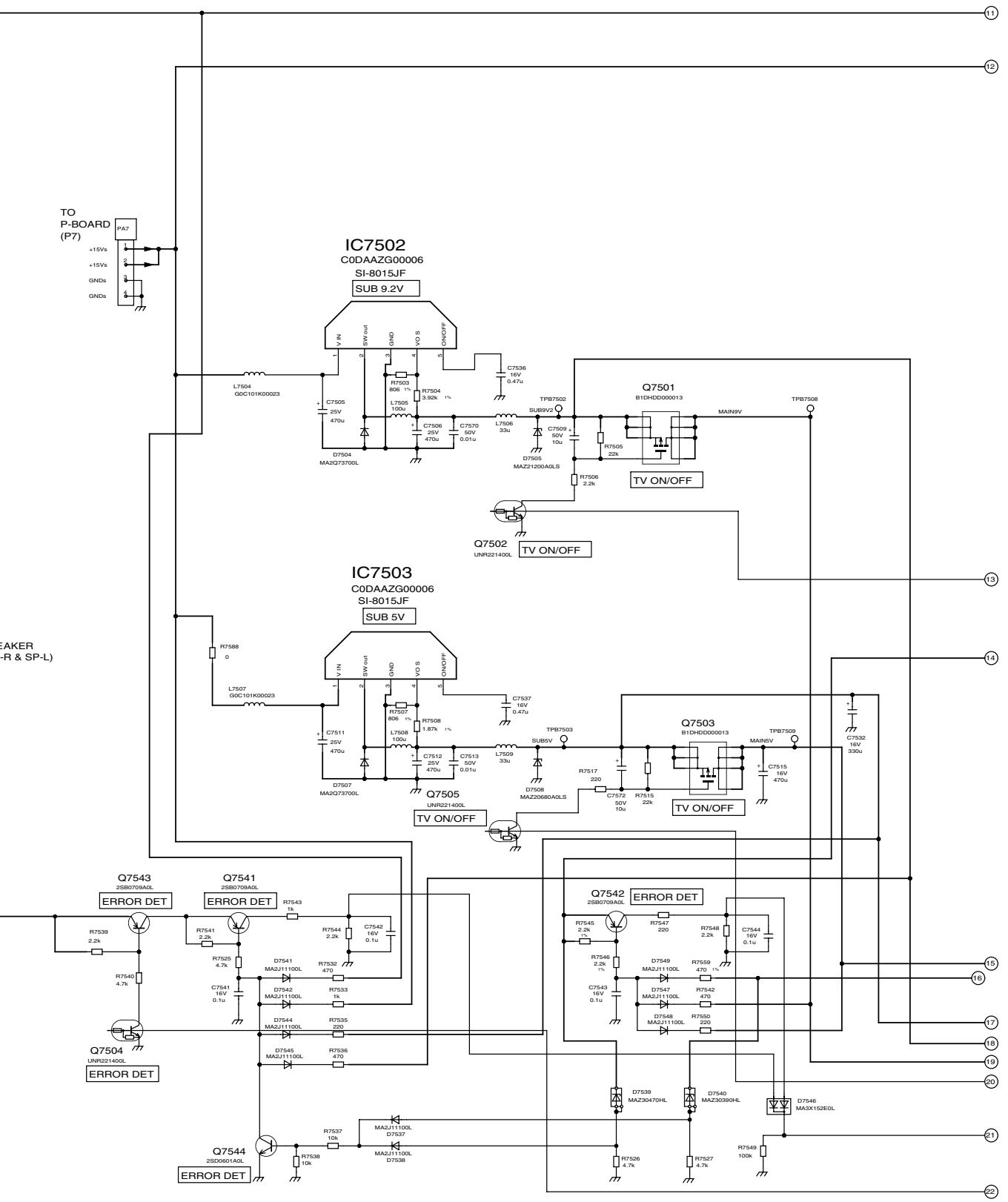


TH-42PA20B/E
PA-Board(1of3)Schematic Diagram

14.8. PA-Board (2 of 3) Schematic Diagram



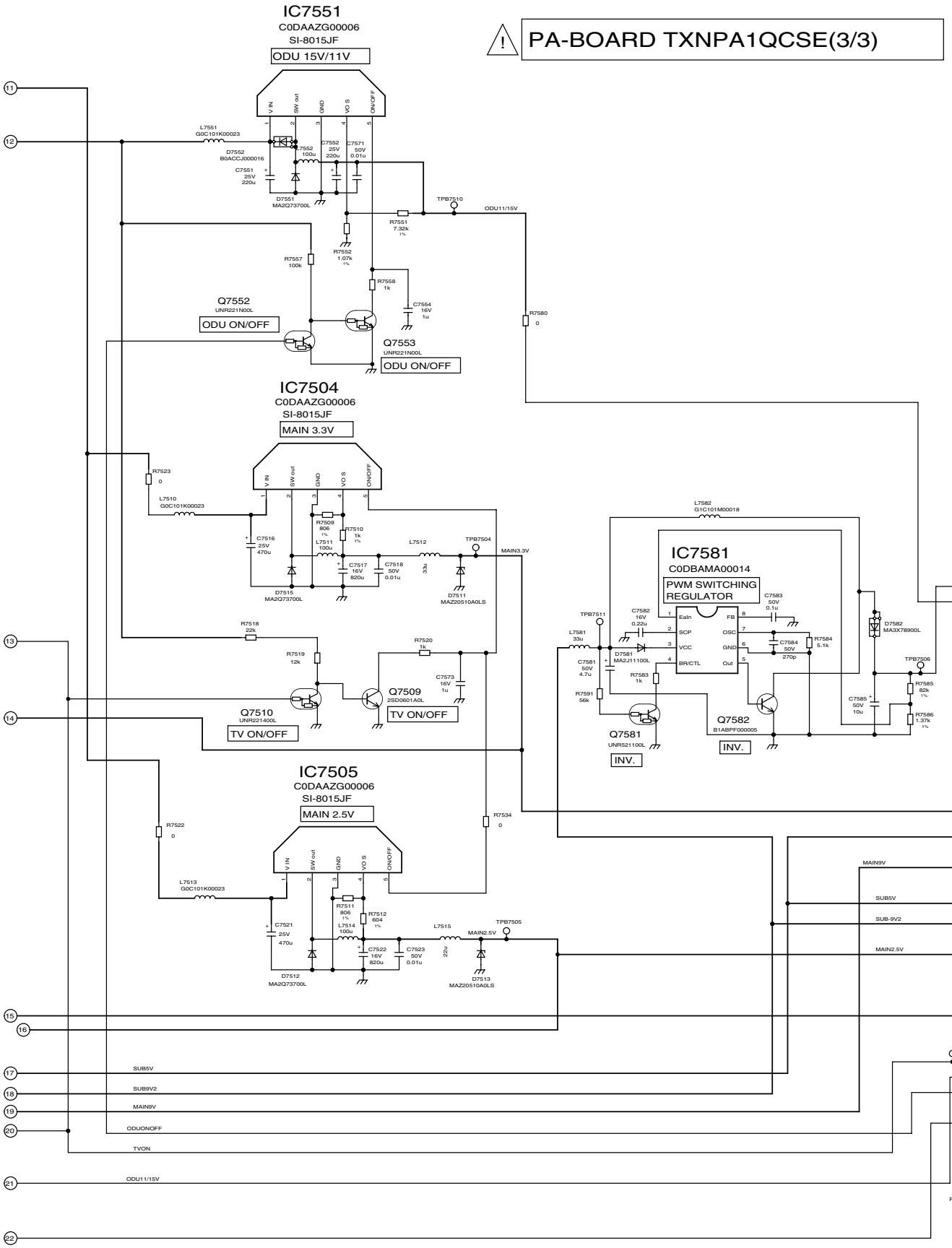
TH-42PA20B/E
PA-Board(2of3)Schematic Diagram



TH-42PA20B/E PA-Board(2of3)Schematic Diagram

12 | 13 | 14 | 15

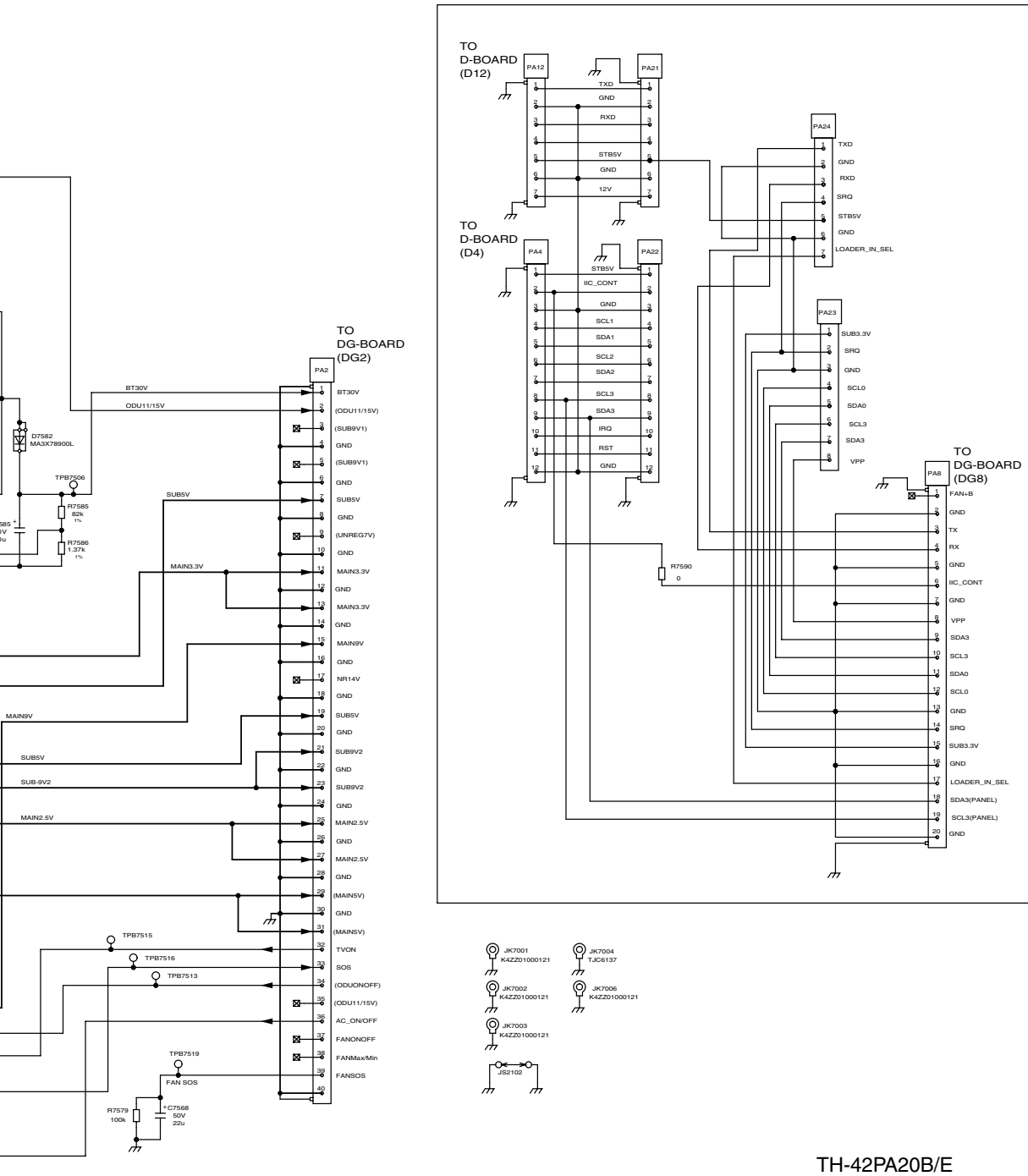
14.9. PA-Board (3 of 3) Schematic Diagram



TH-42PA20B/E PA-Board(3of3)Schematic Diagram

15	16	17	18

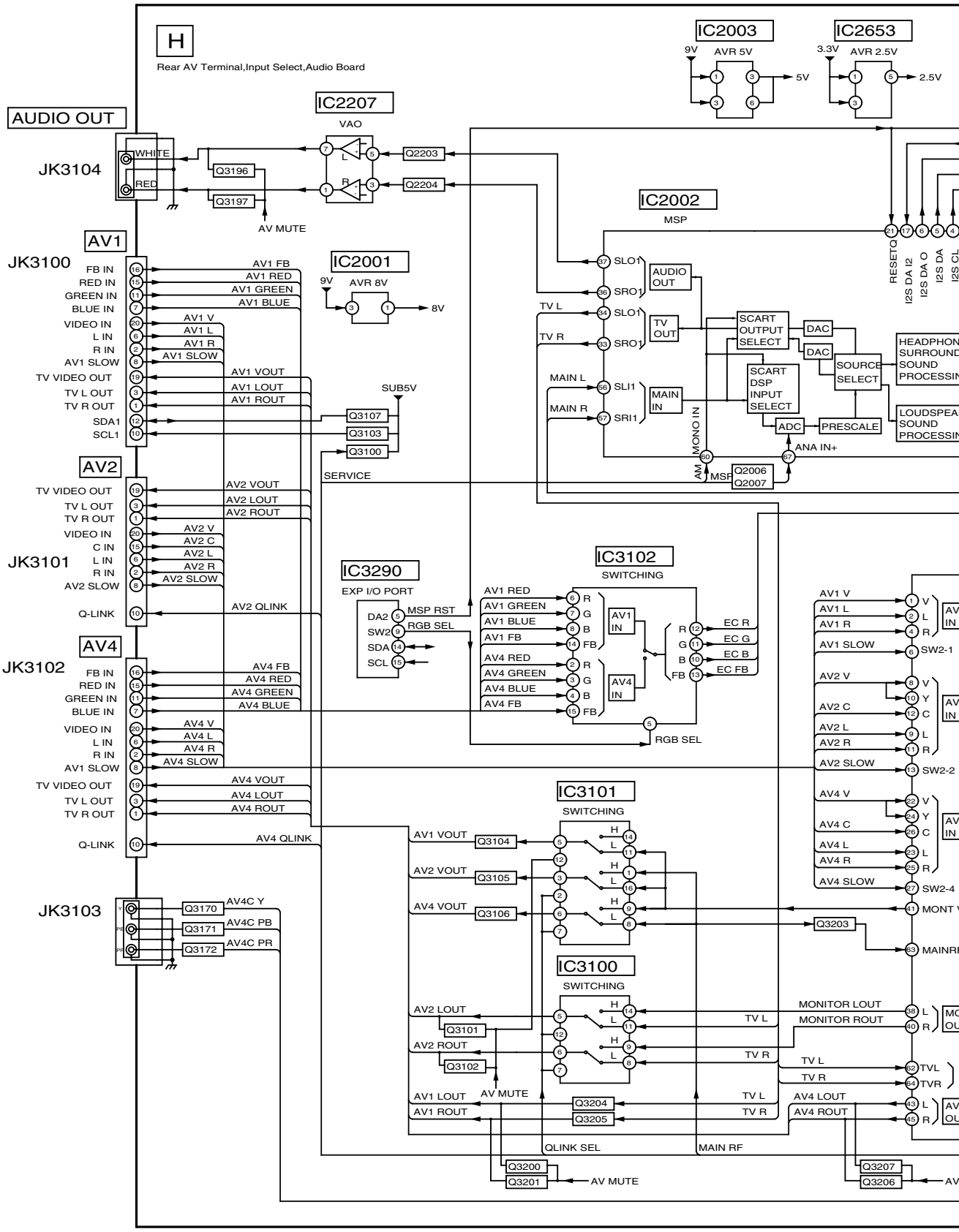
3)



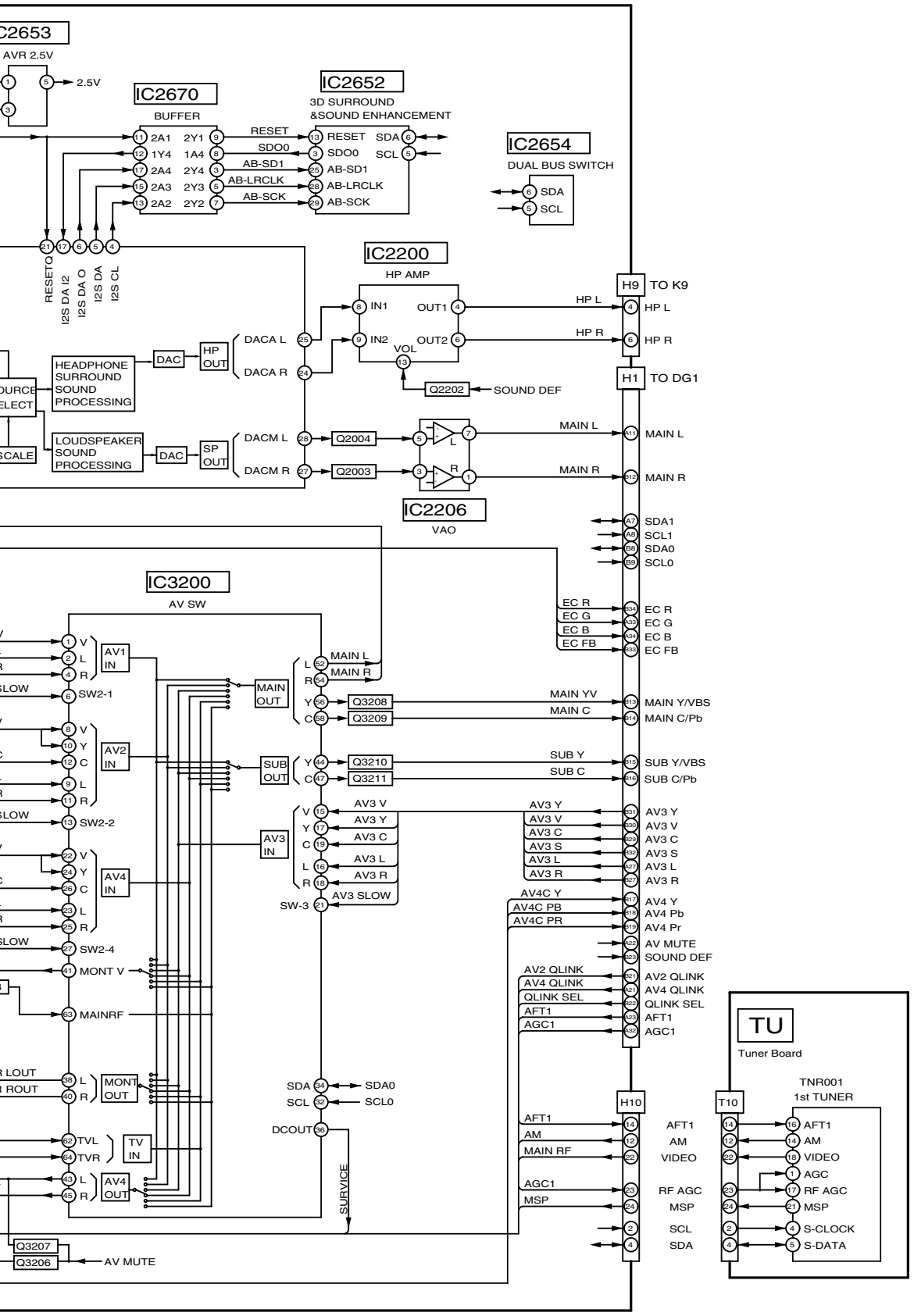
TH-42PA20B/E
PA-Board(3of3)Schematic Diagram

18	19	20	21

14.10. H and TU-Board Block Diagram

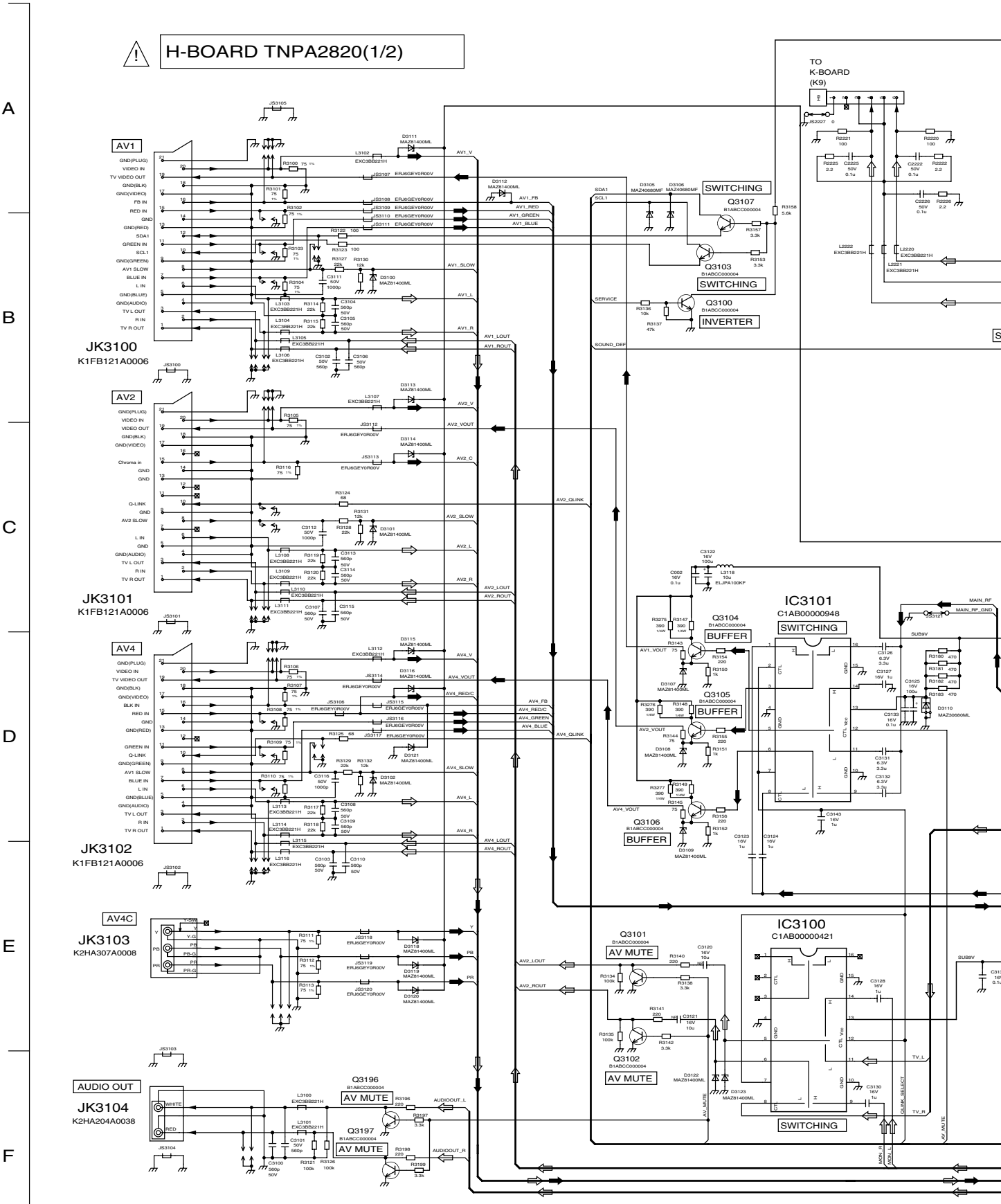


TH-42PA20B/E
H and TU-Board Block Diagram

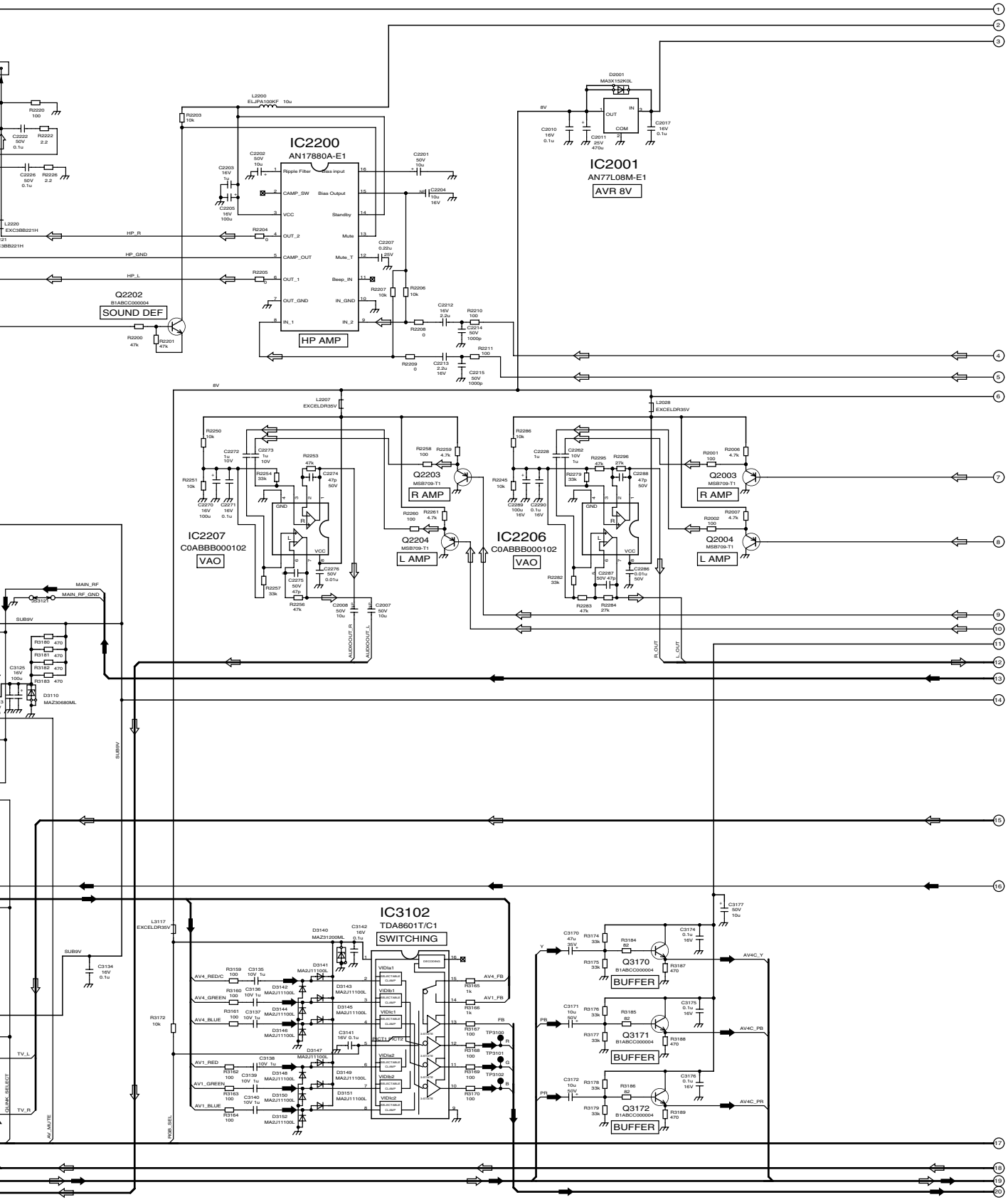


TH-42PA20B/E
H and TU-Board Block Diagram

14.11. H-Board (1 of 2) Schematic Diagram



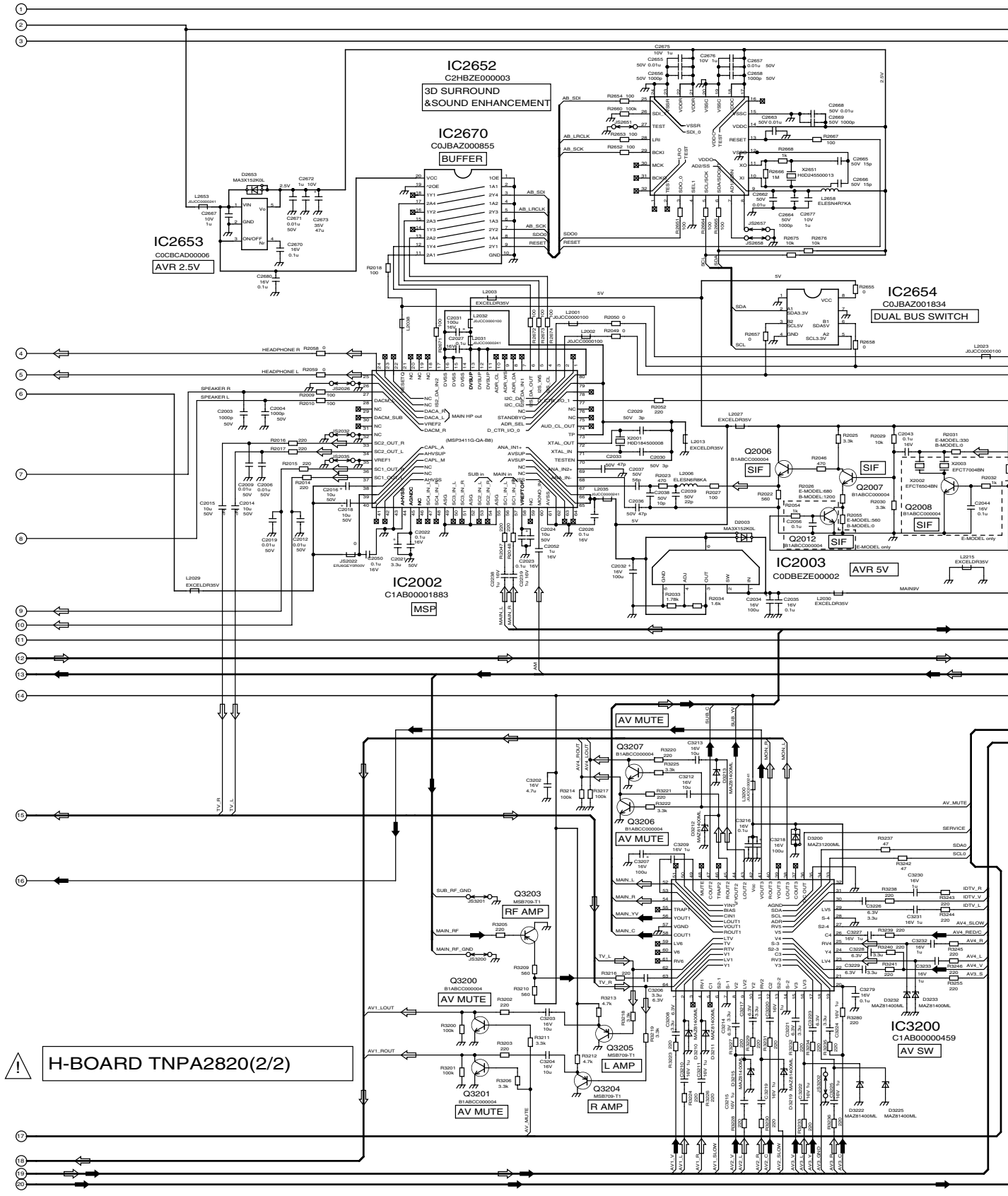
TH-42PA20B/E
H-Board(1of2)Schematic Diagram



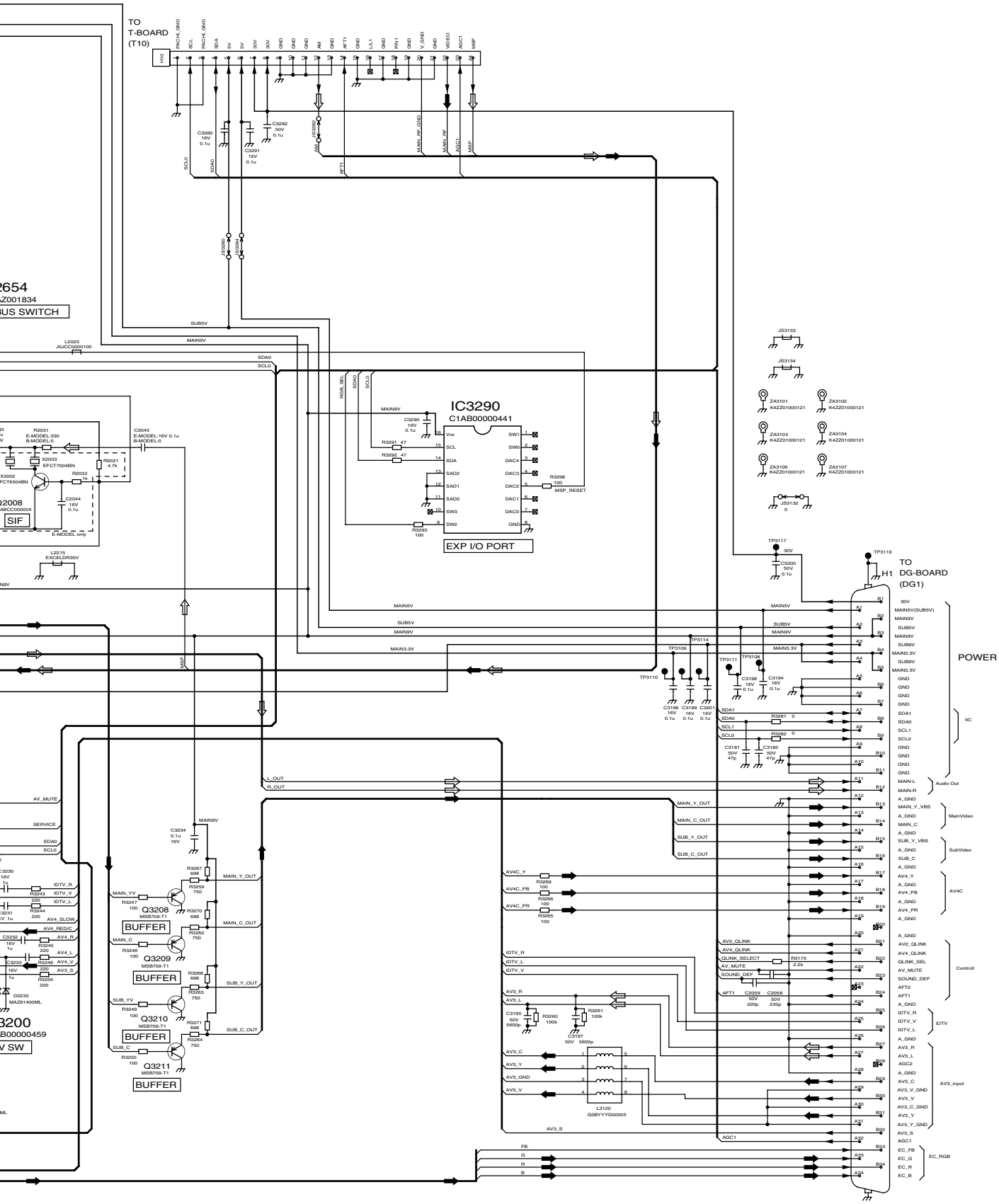
TH-42PA20B/E
H-Board(1of2)Schematic Diagram

5 6 7 8 9

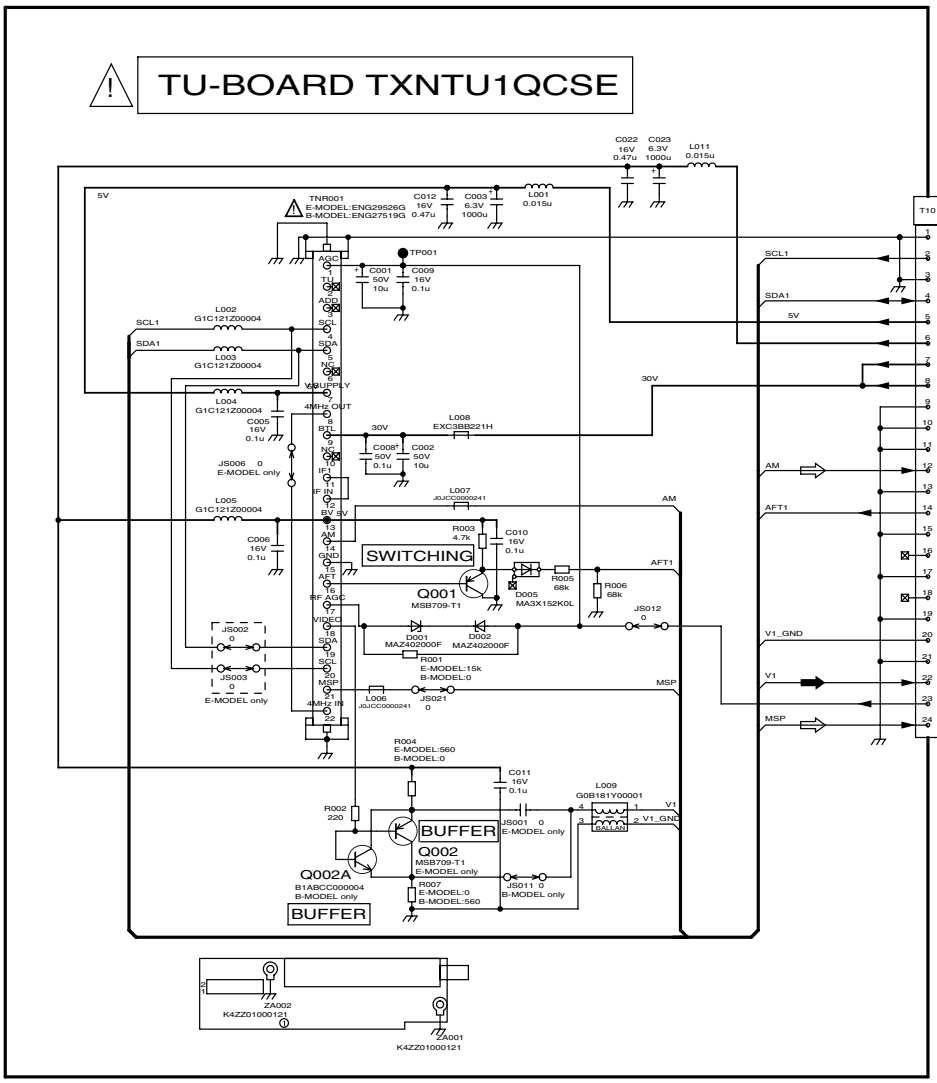
14.12. H-Board (2 of 2) Schematic Diagram



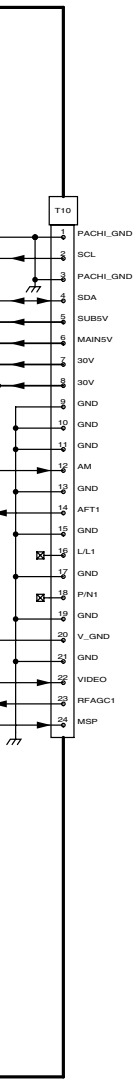
TH-42PA20B/E
H-Board(2of2)Schematic Diagram


TO
T-BOARD
(T10)
H10
IC3290
C1AB00000441
EXP I/O PORT
TO
DG-BOARD
(DG1)
H1
POWER
IIC
Audio Out
MainVideo
SubVideo
AV4C
Controll
IDTV
AV3_input
EC_RGB
BUFFER
Q3208
Q3209
Q3210
Q3211
MSB709-T1
L3120
G0BYYYG00005
SUB5V
MAIN9V
MAIN5V
MAIN3.3V
SDA0
SCL0
MSP
AFT1
AGC1
MSP_RESET
SIF
E-MODEL only
SERVICE
AV_MUTE
L_OUT
R_OUT
MAIN_Y_OUT
MAIN_C_OUT
SUB_Y_OUT
SUB_C_OUT
AV4C_Y
AV4C_PB
AV4C_PR
IDTV_R
IDTV_L
IDTV_V
AV3_R
AV3_L
AV3_C
AV3_Y
AV3_GND
AV3_V
AV3_S
FB
G
R
B
EC_FB
EC_G
EC_R
EC_B
TH-42PA20B/E
H-Board(2of2)Schematic Diagram

14.13. TU-Board Schematic Diagram



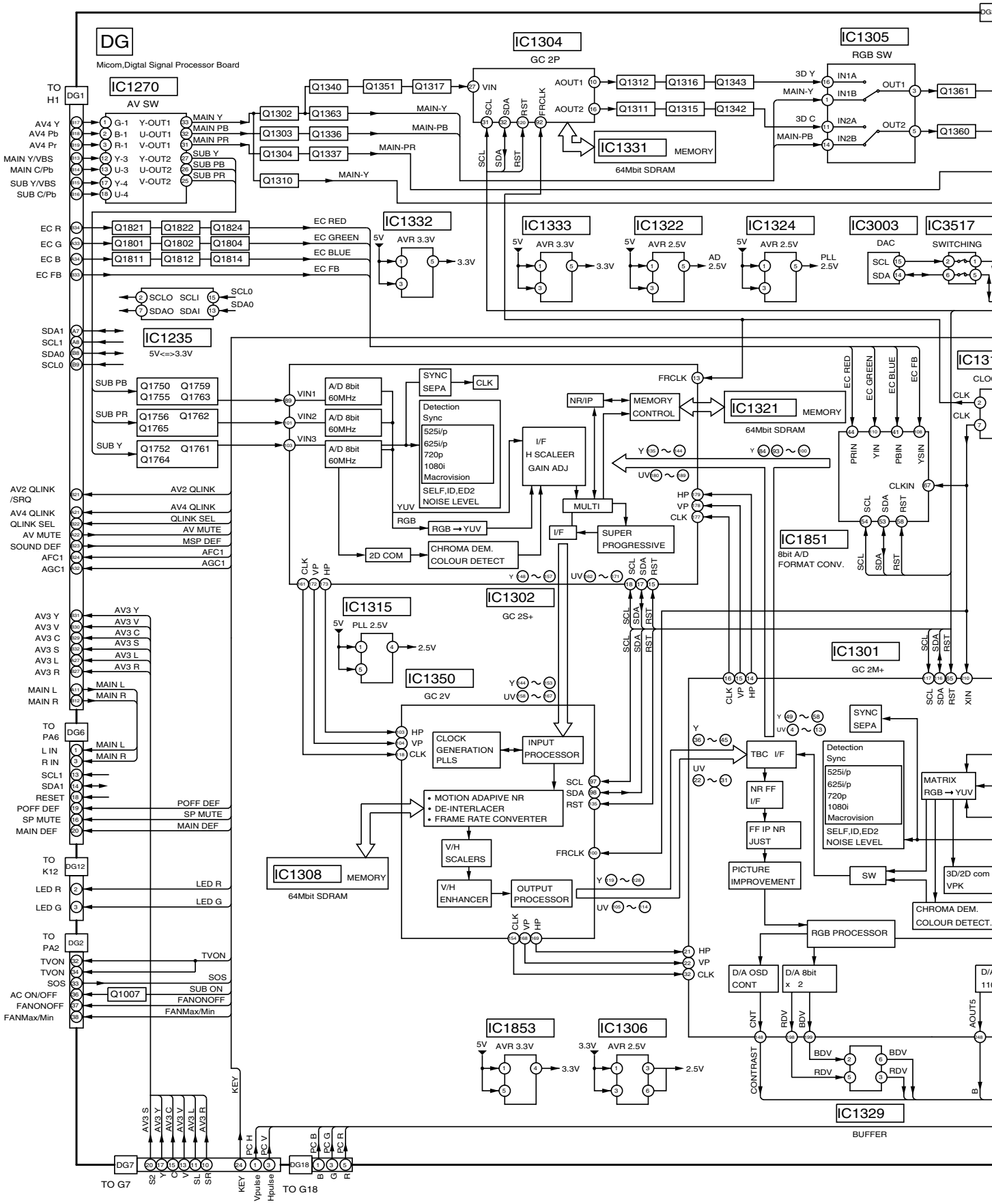
TH-42PA20B/E
TU-Board Schematic Diagram



TH-42PA20B/E
TU-Board Schematic Diagram

4 5 6 7 8

14.14. DG-Board Block Diagram



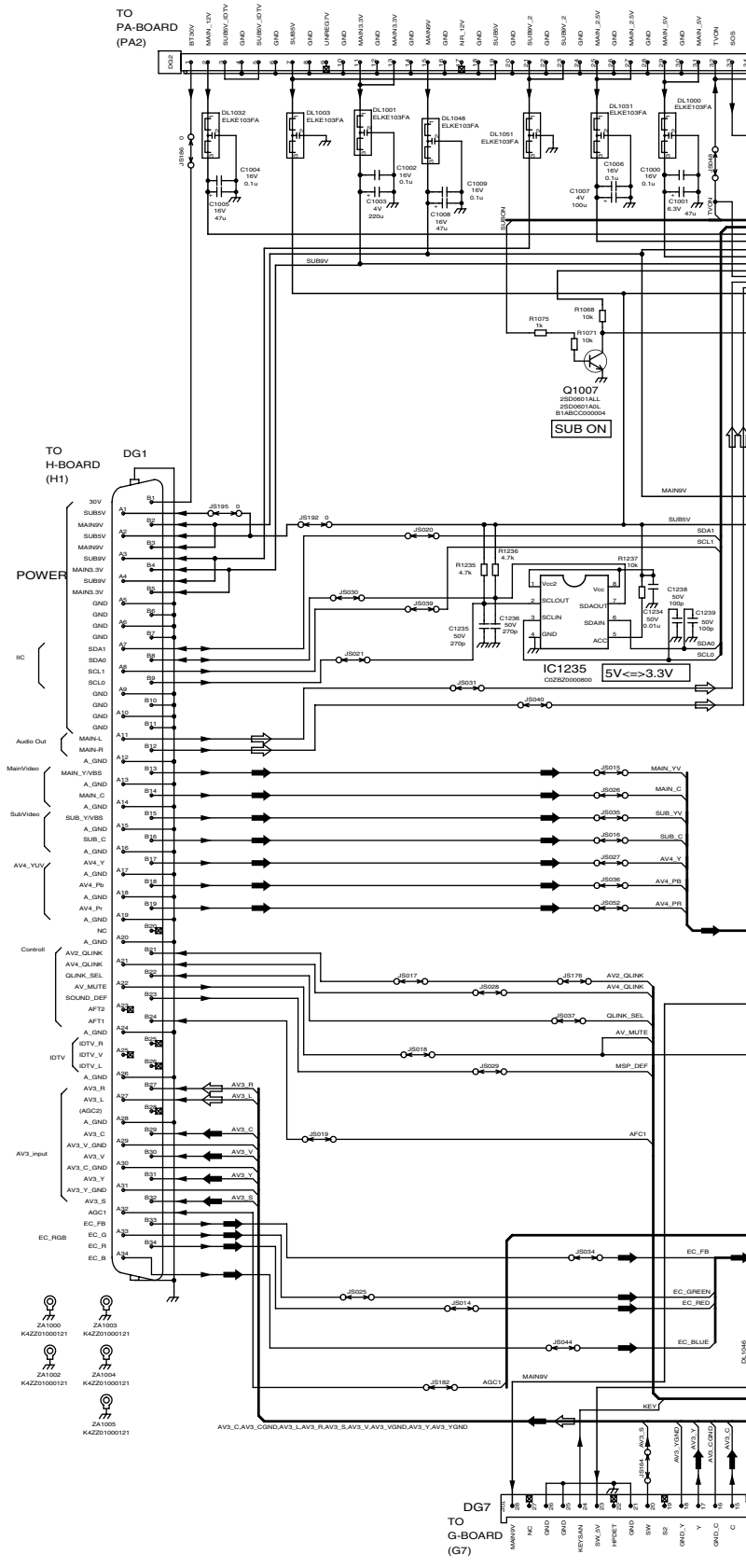
TH-42PA20B/E DG-Board Block Diagram



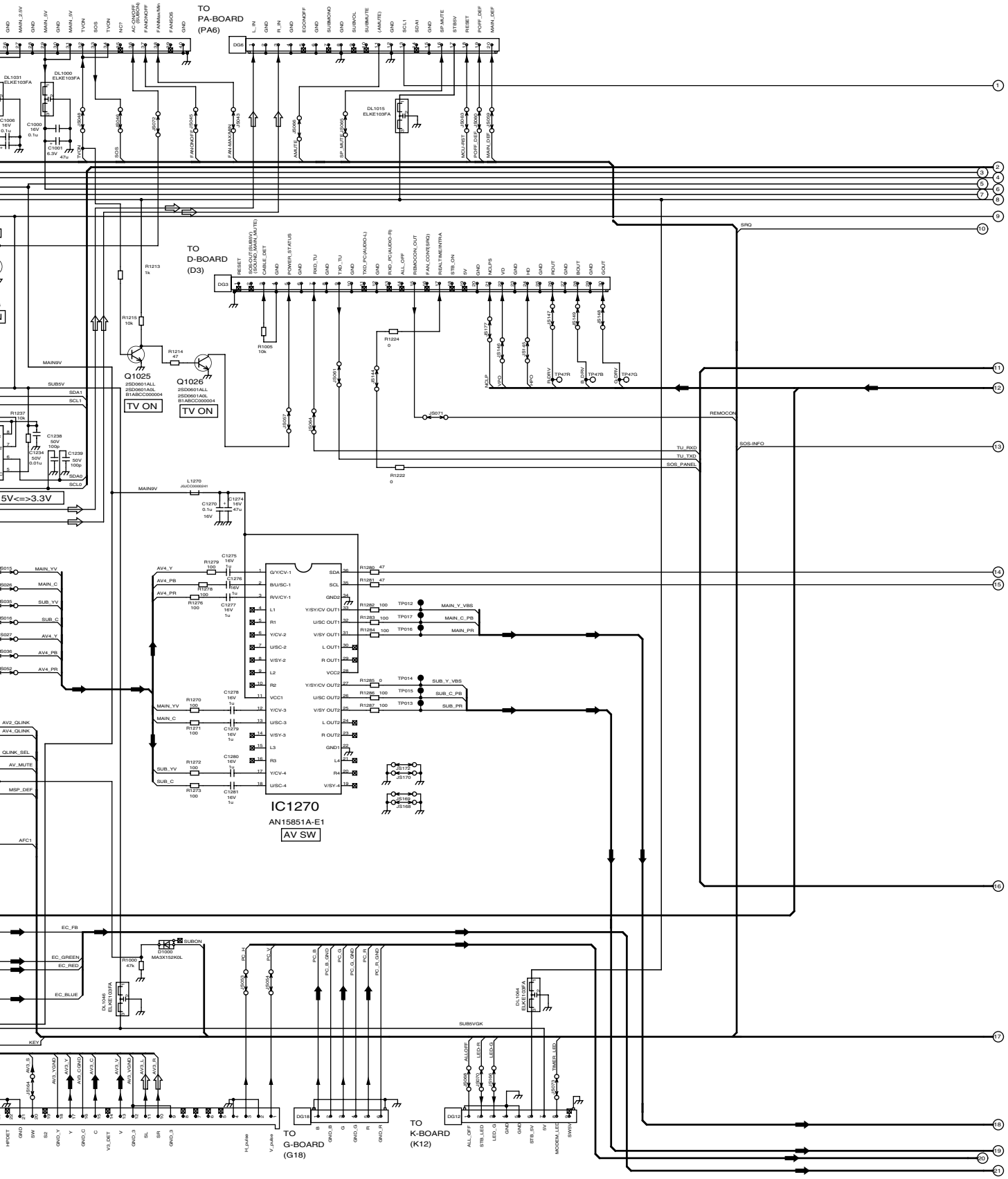
TH-42PA20B/E DG-Board Block Diagram

14.15. DG-Board (1 of 8) Schematic Diagram

DG-BOARD TNPA2819 (1/8)



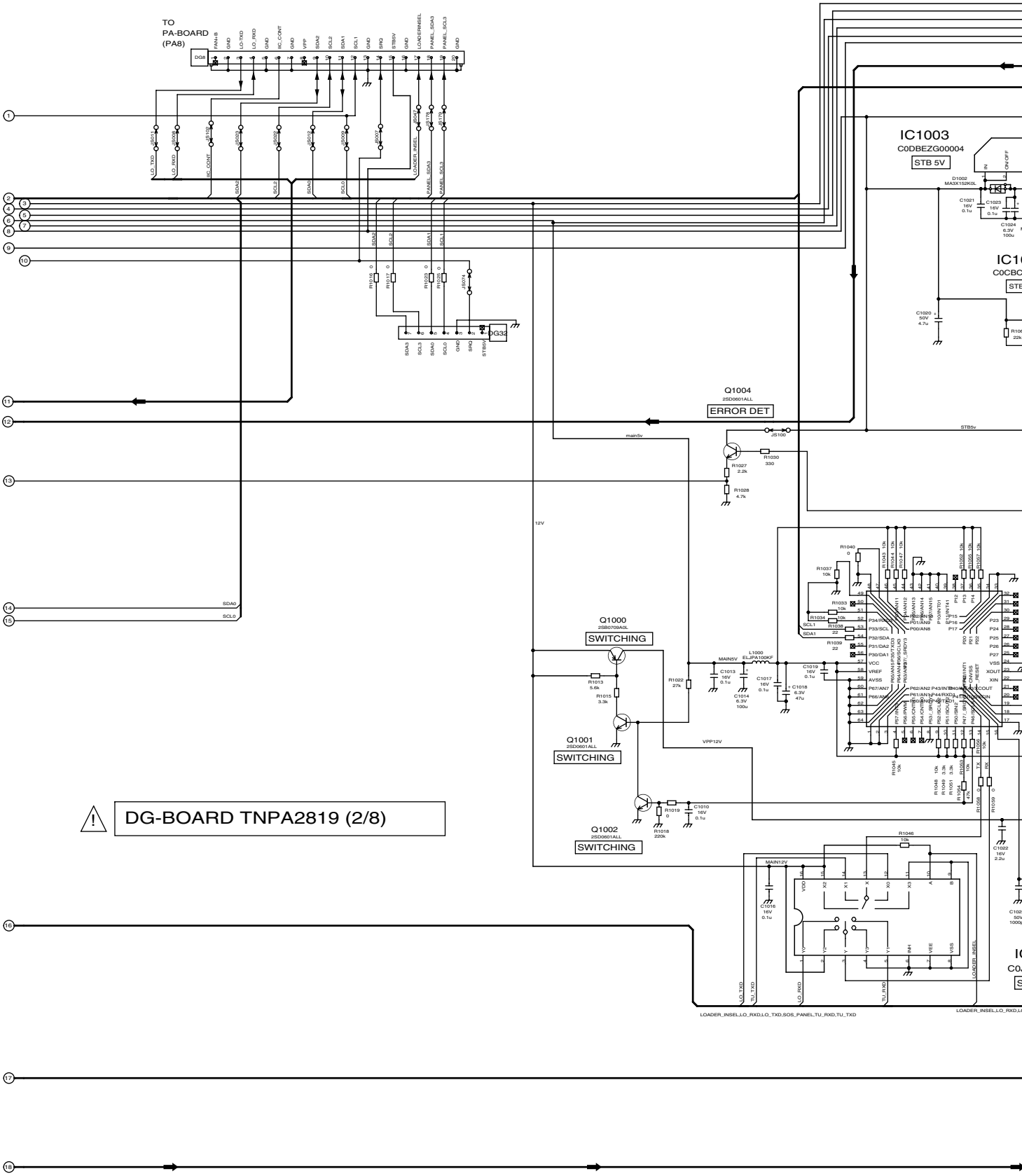
TH-42PA20B/E
DG-Board(1of8)Schematic Diagram



TH-42PA20B/E DG-Board(1of8)Schematic Diagram

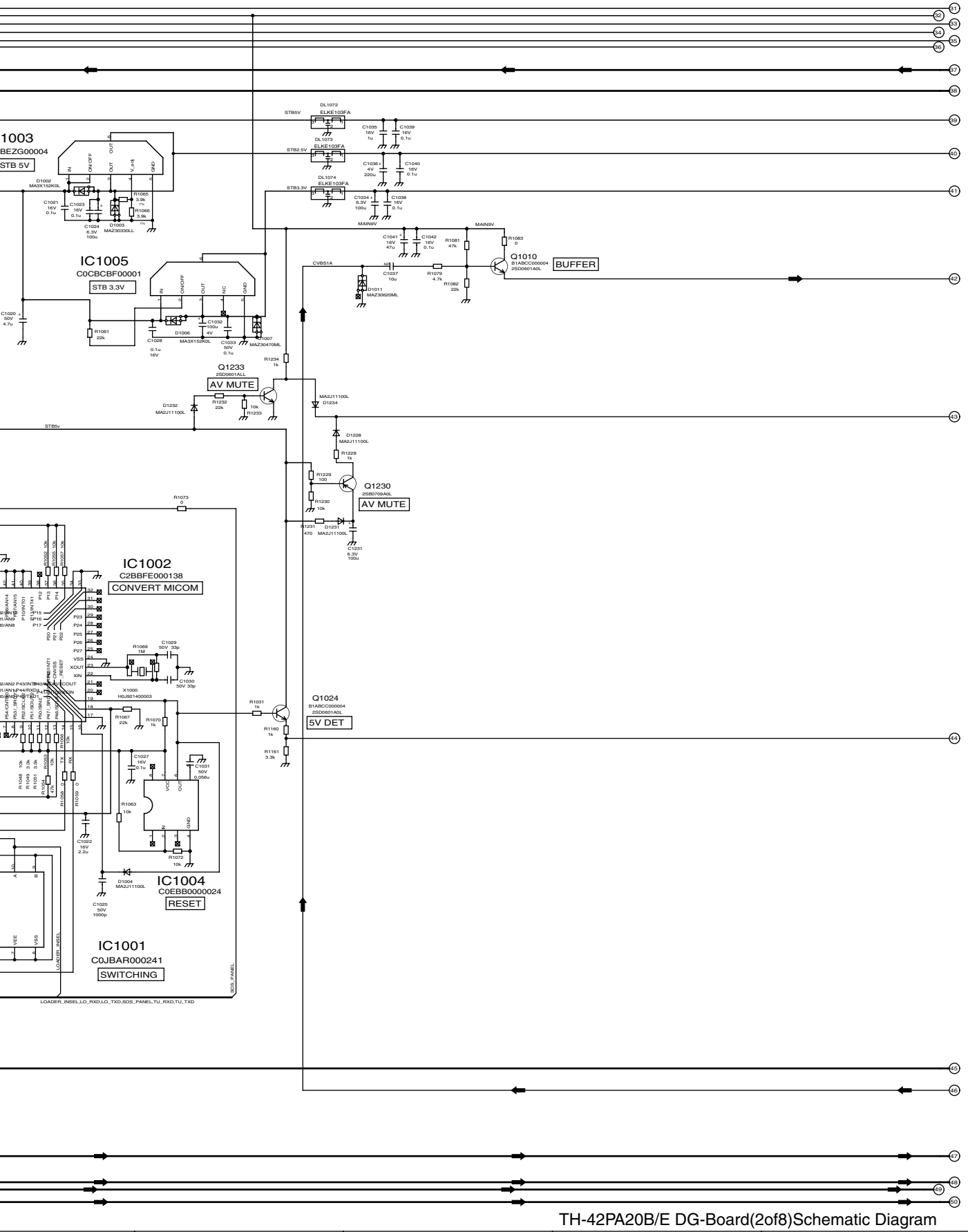
5 6 7 8 9

14.16. DG-Board (2 of 8) Schematic Diagram



TH-42PA20B/E DG-Board(2of8)Schematic Diagram

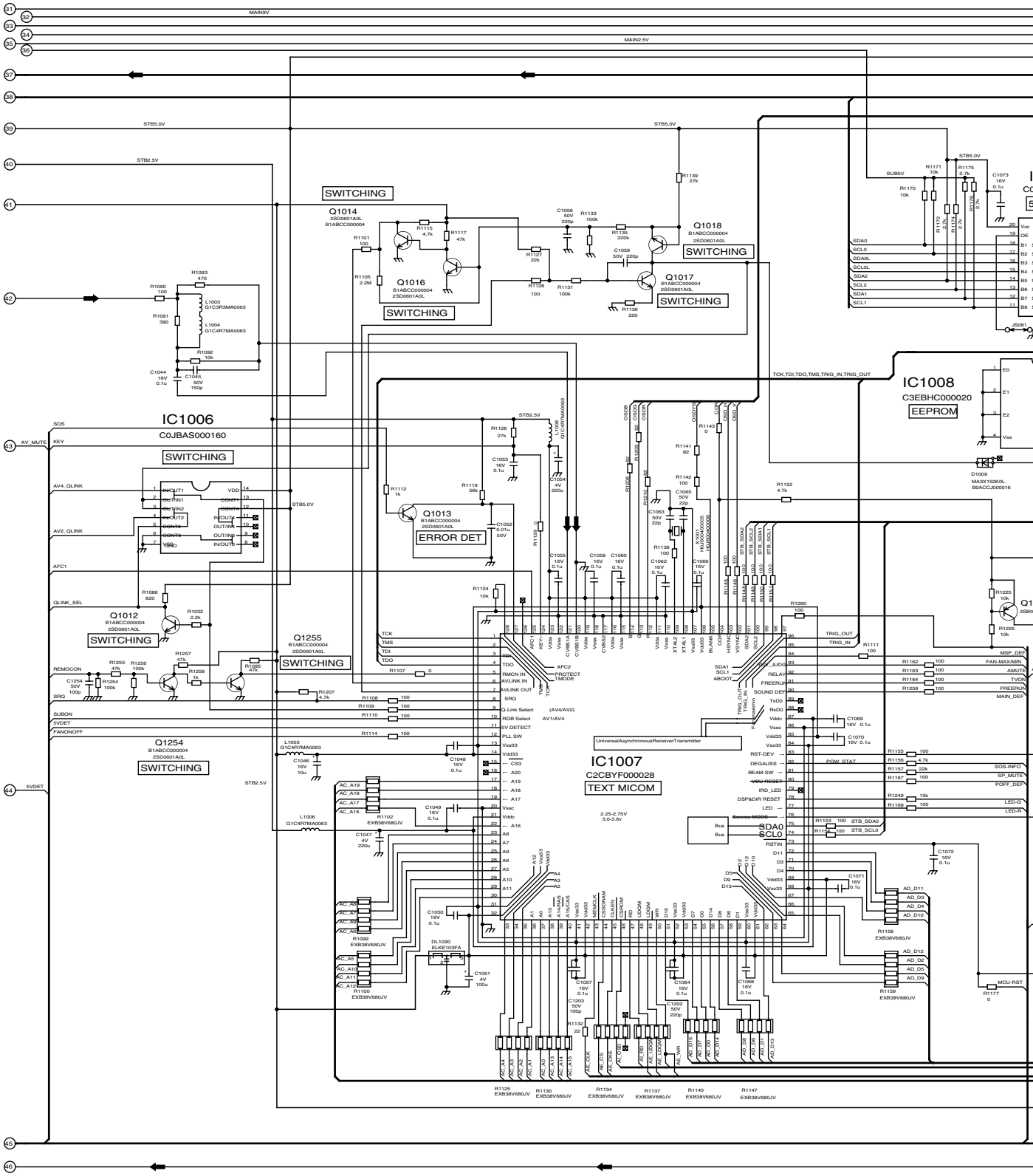
10 | 11 | 12 | 13 | 14



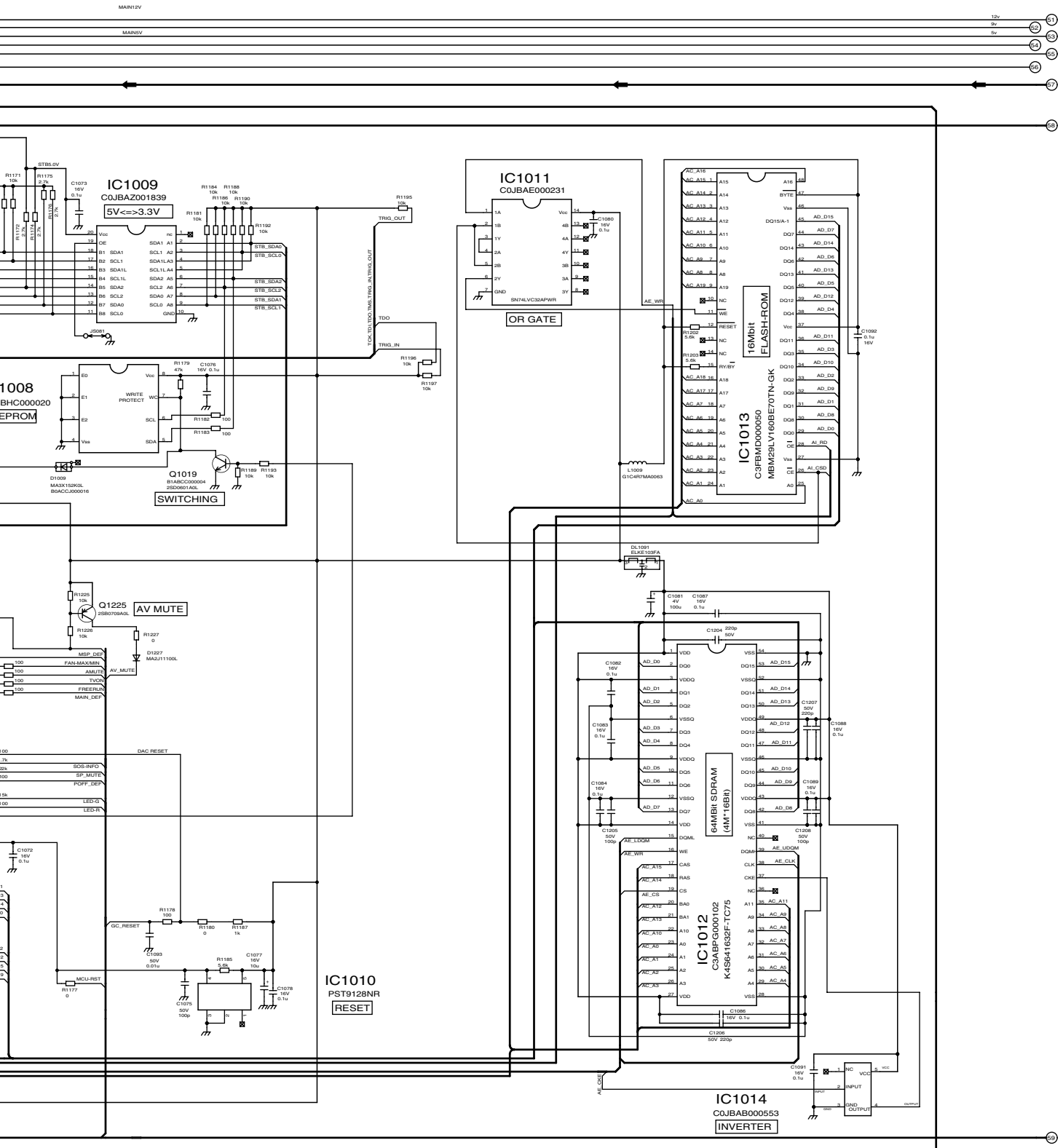
TH-42PA20B/E DG-Board(2of8)Schematic Diagram

14 15 16 17 18

14.17. DG-Board (3of 8) Schematic Diagram

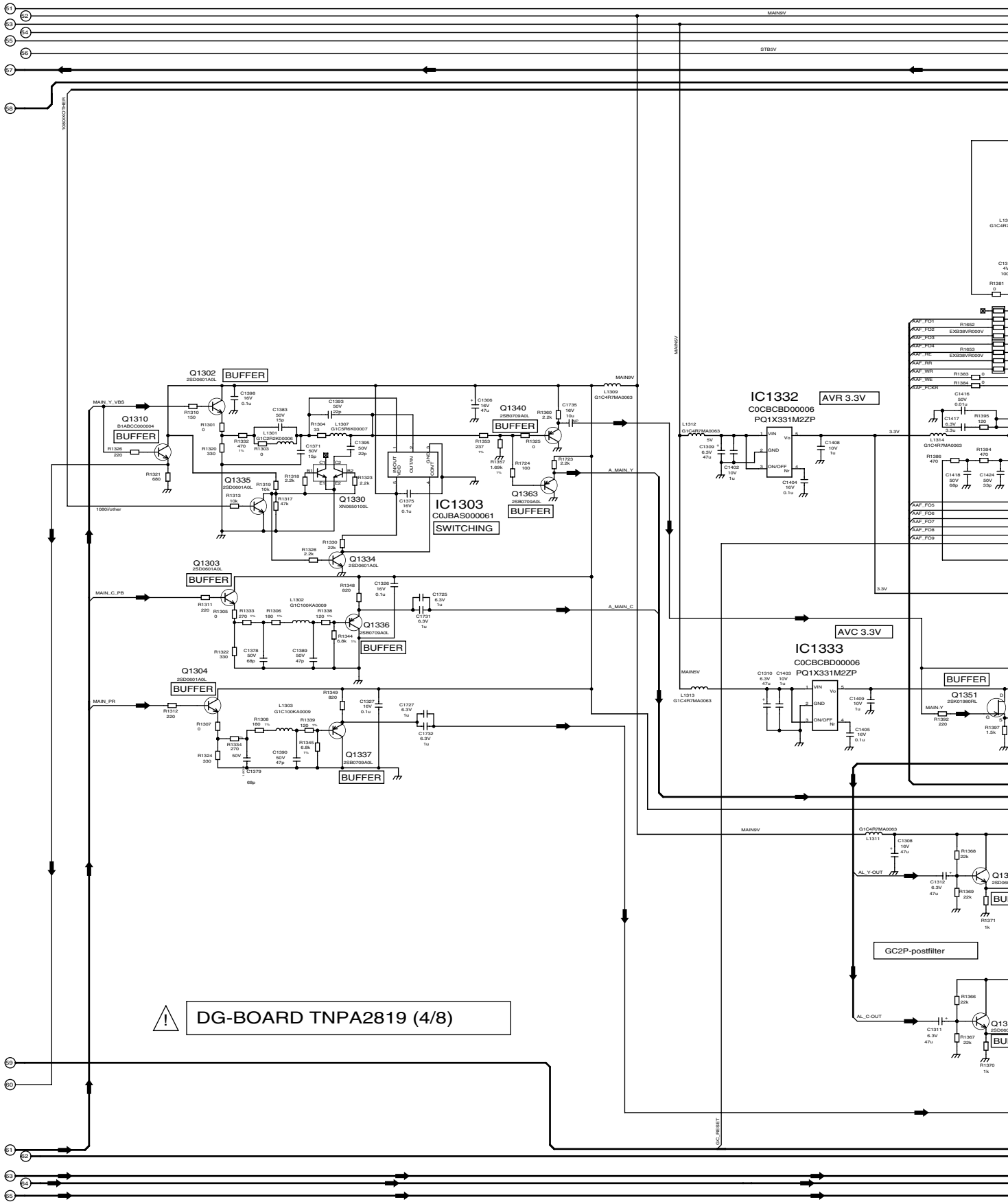


TH-42PA20B/E DG-Board(3of8)Schematic Diagram



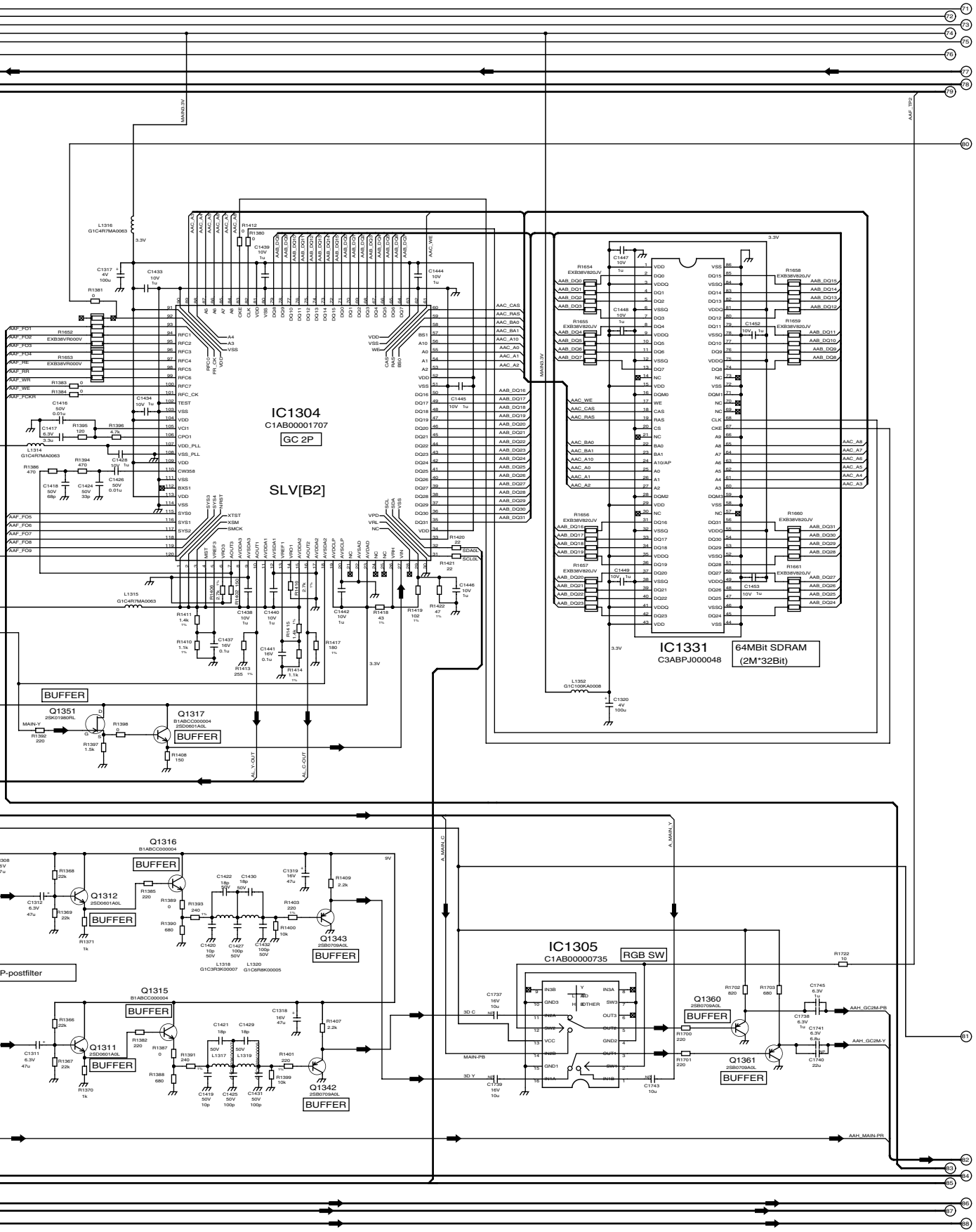
TH-42PA20B/E DG-Board(3of8)Schematic Diagram

14.18. DG-Board (4 of 8) Schematic Diagram



TH-42PA20B/E DG-Board(4of8)Schematic Diagram

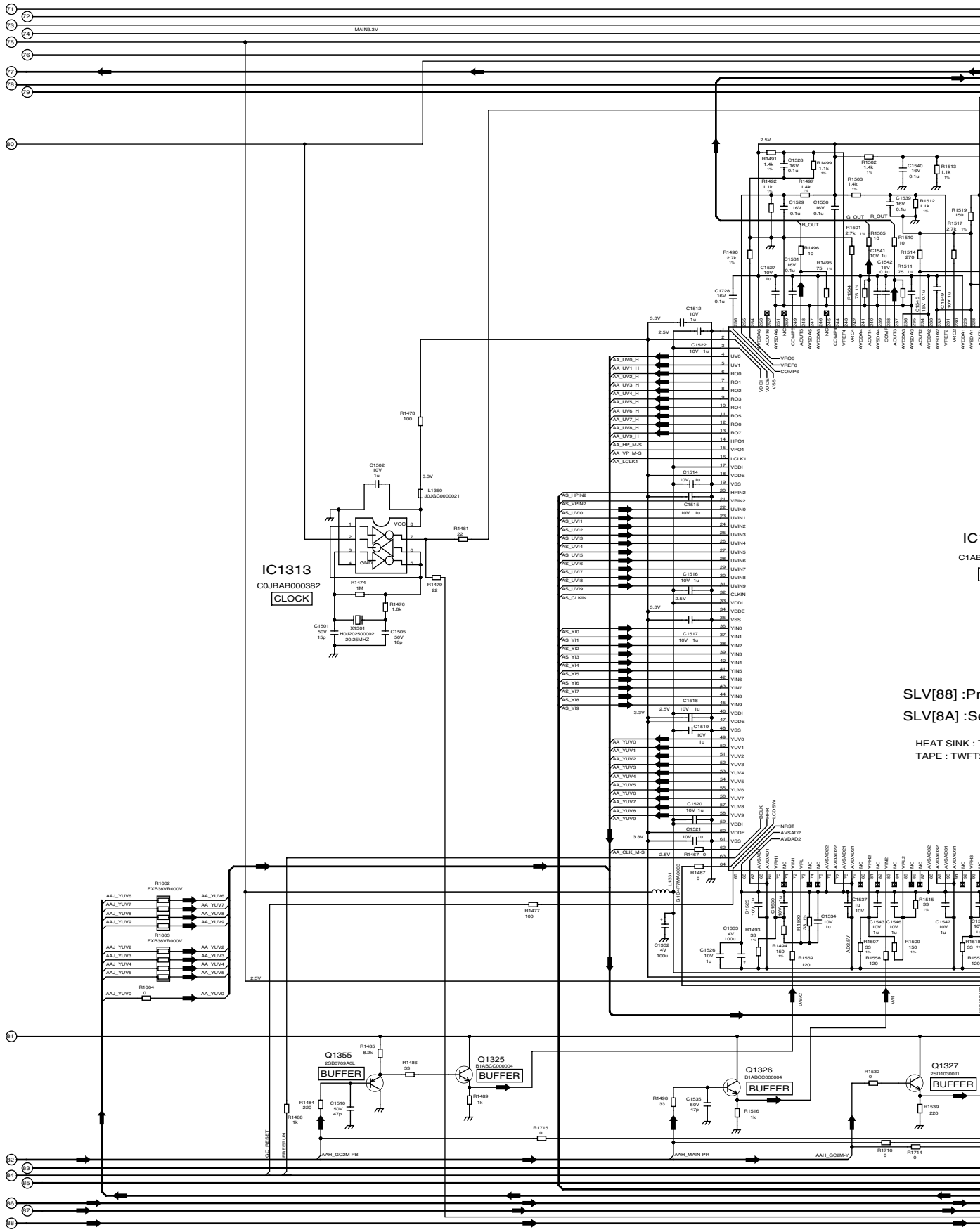
28 | 29 | 30 | 31 | 32



TH-42PA20B/E DG-Board(4of8)Schematic Diagram

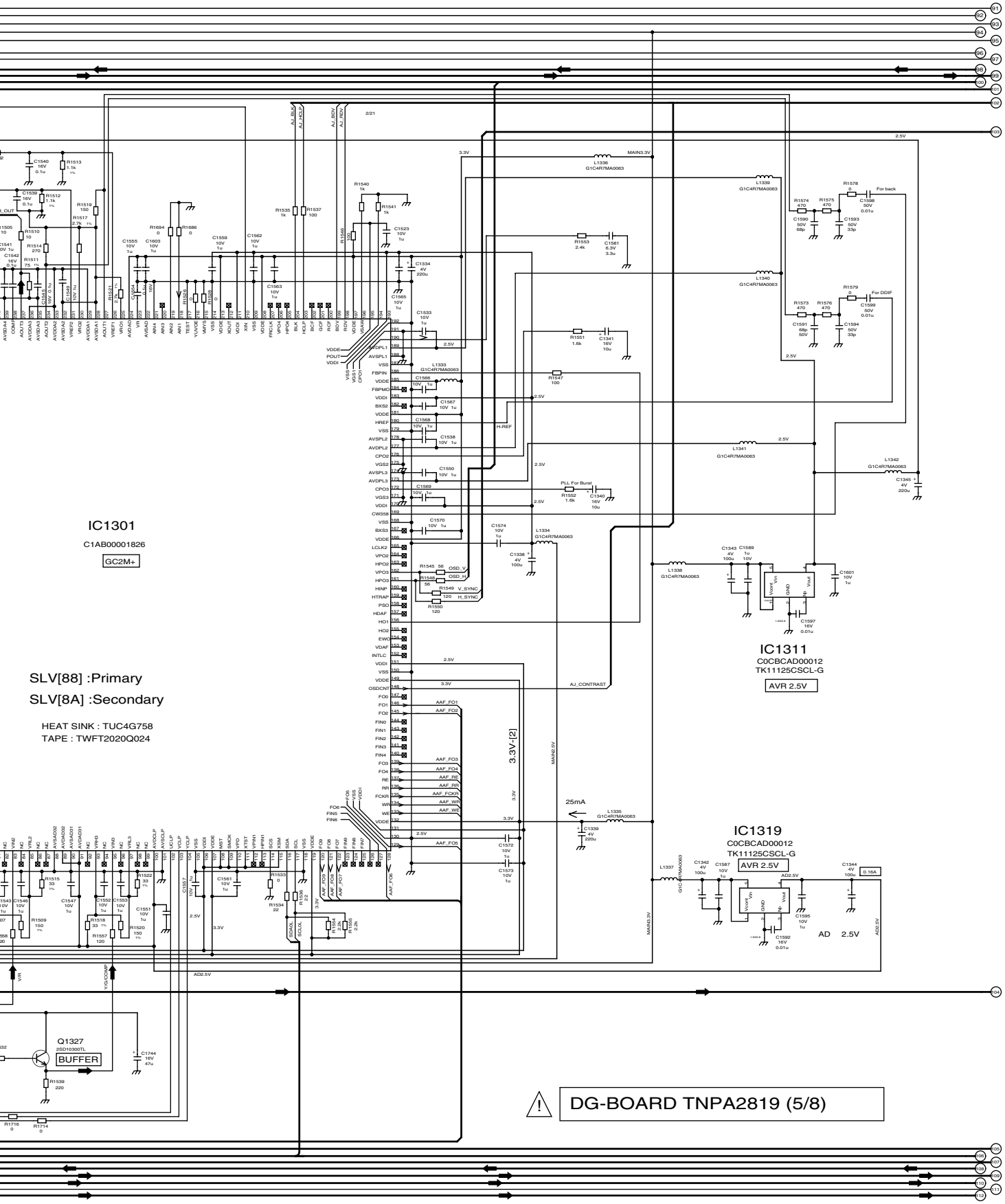
32	33	34	35	36

14.19. DG-Board (5 of 8) Schematic Diagram



TH-42PA20B/E DG-Board(5of8)Schematic Diagram

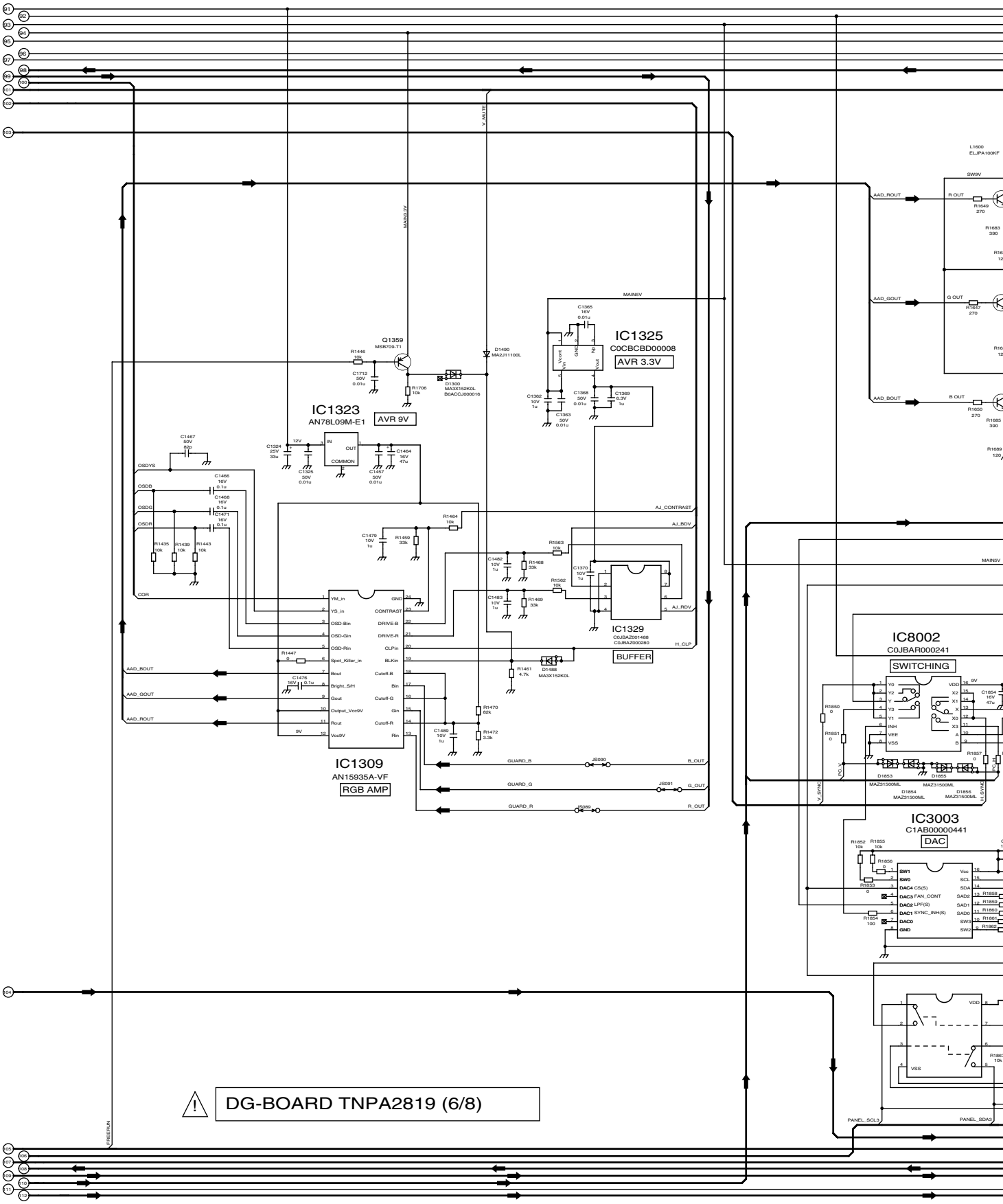
37 38 39 40 41



TH-42PA20B/E DG-Board(5of8)Schematic Diagram

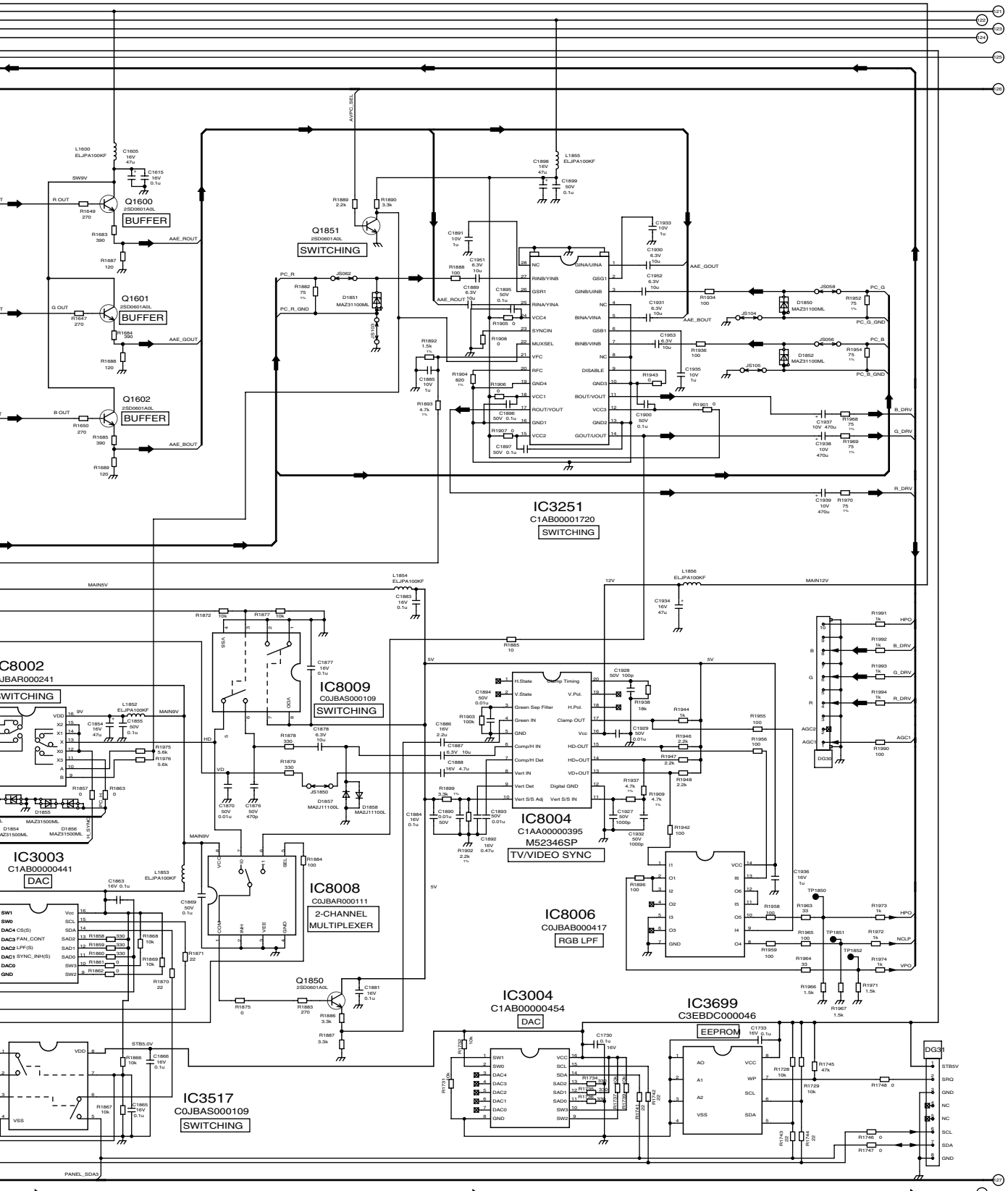
41	42	43	44	45

14.20. DG-Board (6 of 8) Schematic Diagram



TH-42PA20B/E DG-Board(6of8)Schematic Diagram

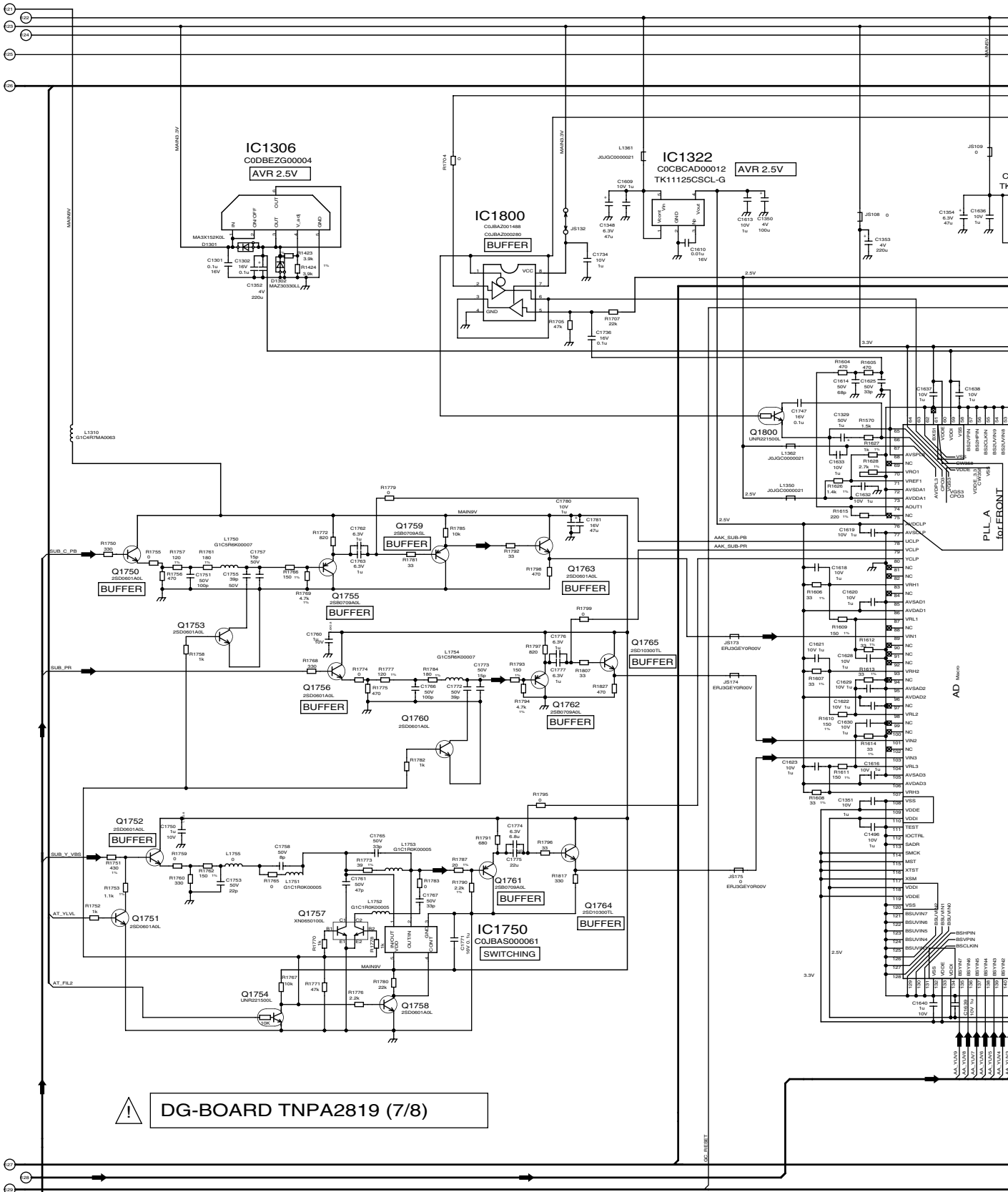
46	47	48	49	50



TH-42PA20B/E DG-Board(6of8)Schematic Diagram

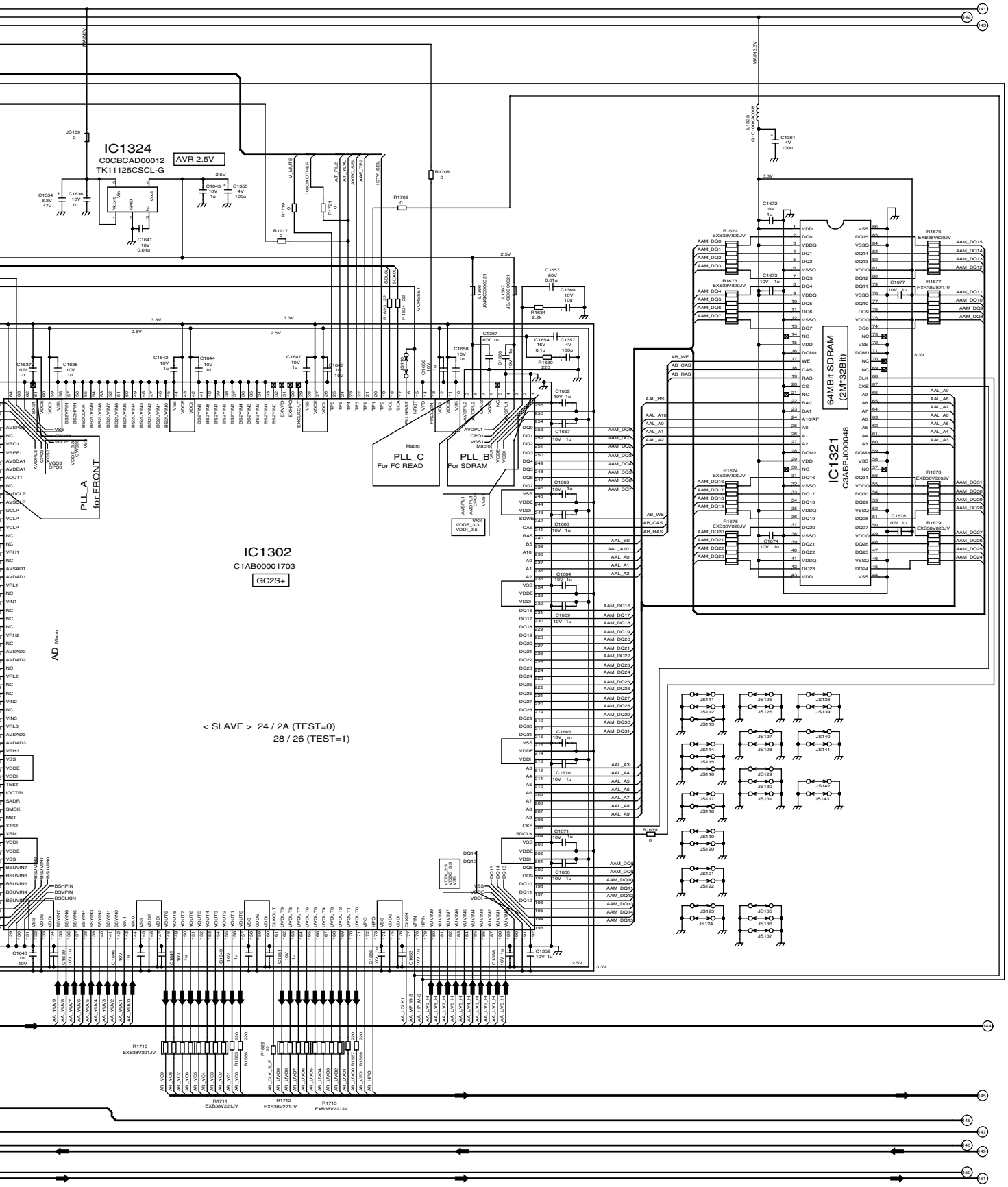
50	51	52	53	54

14.21. DG-Board (7 of 8) Schematic Diagram



TH-42PA20B/E DG-Board(7of8)Schematic Diagram

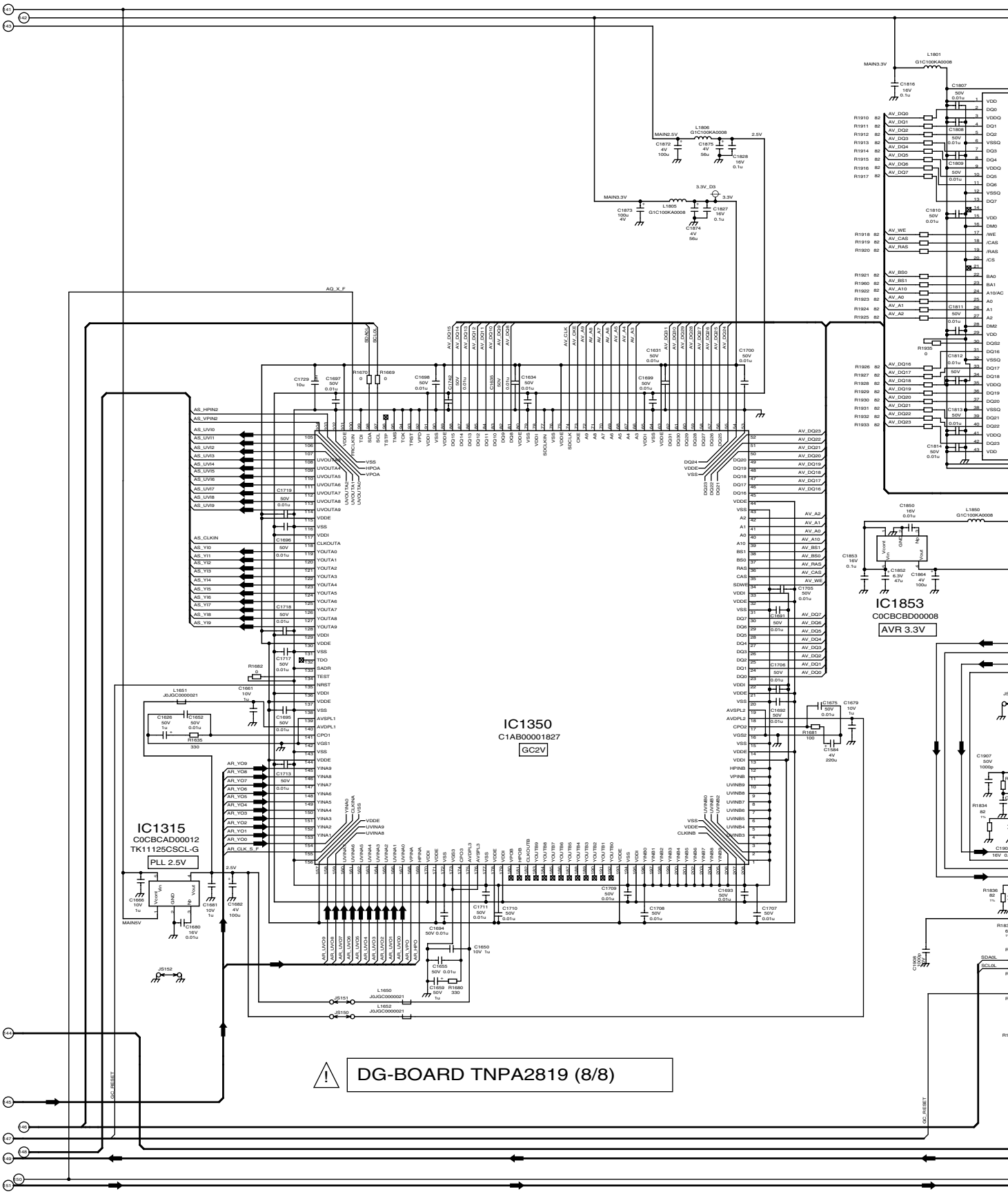
55 56 57 58 59



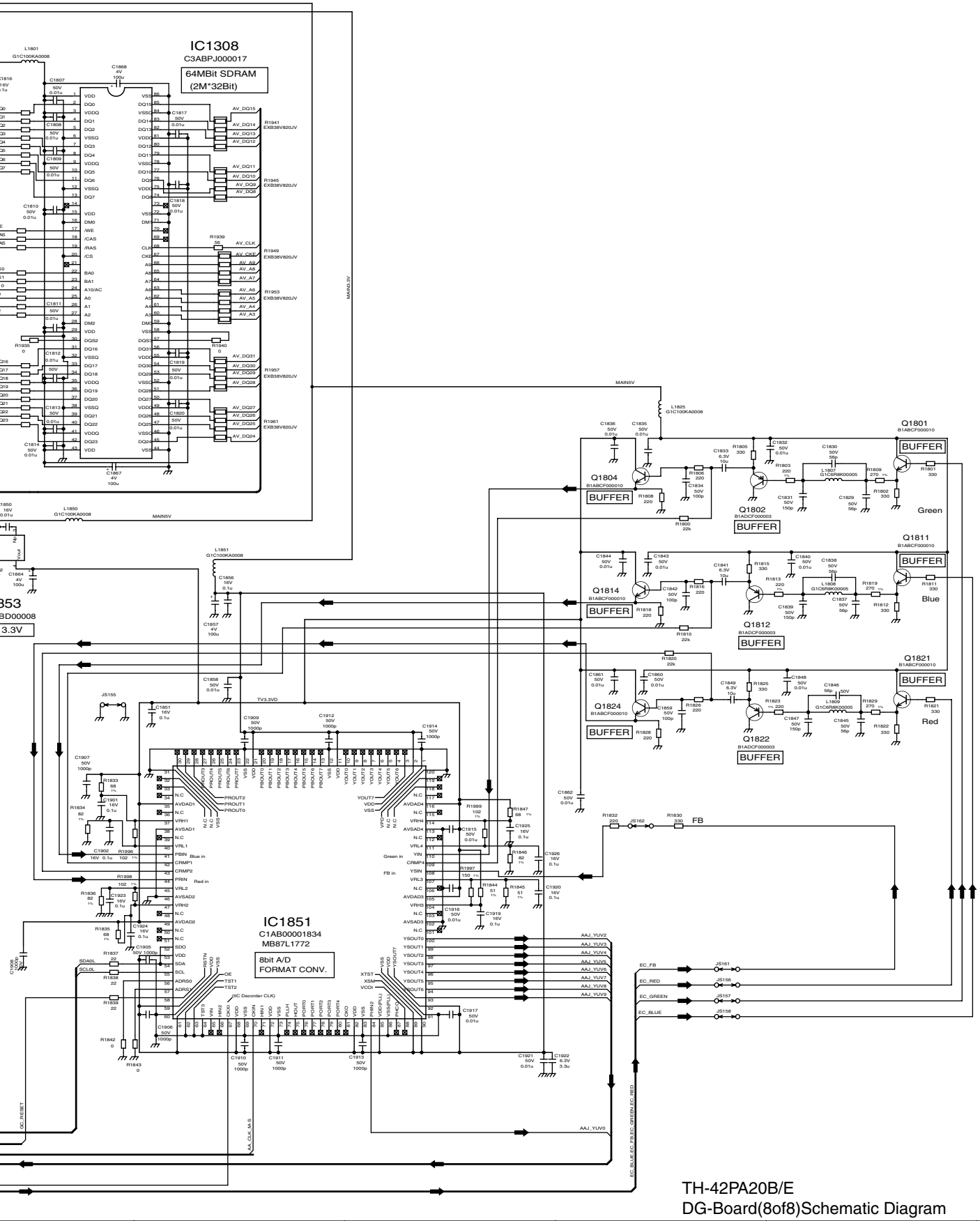
TH-42PA20B/E DG-Board(7of8)Schematic Diagram

59	60	61	62	63

14.22. DG-Board (8 of 8) Schematic Diagram



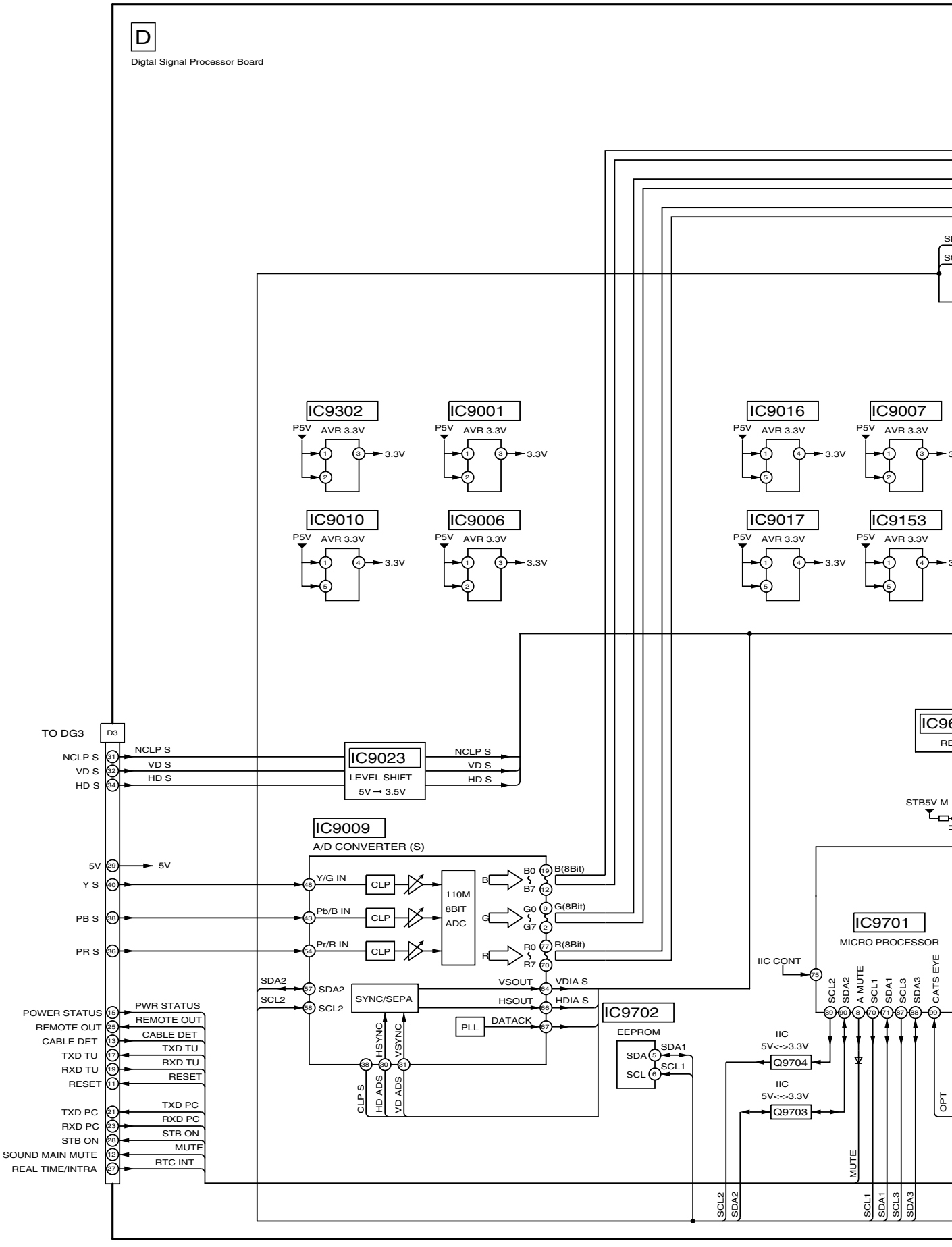
TH-42PA20B/E DG-Board(8of8)Schematic Diagram



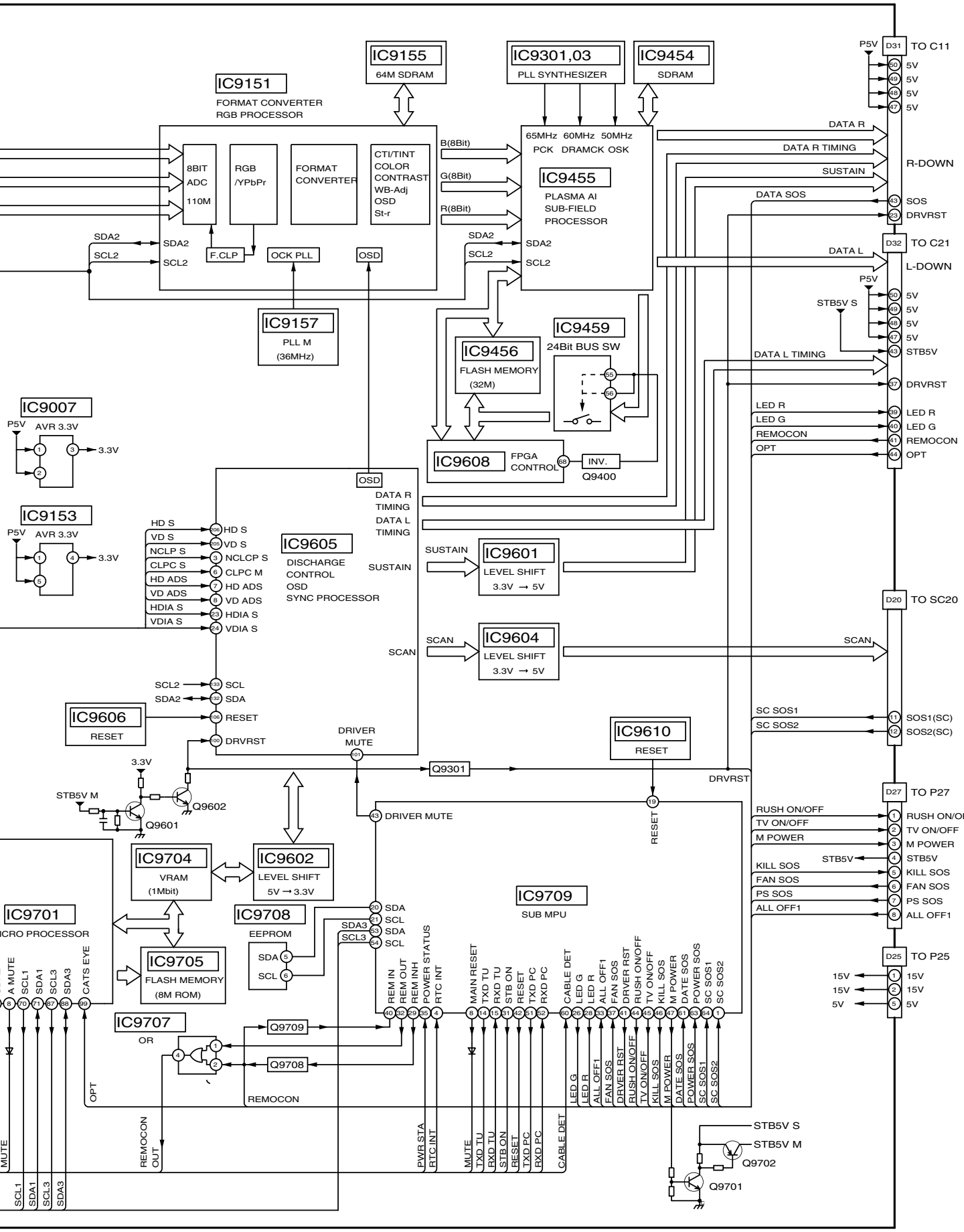
TH-42PA20B/E
DG-Board(8of8)Schematic Diagram

68 | 69 | 70 | 71 | 72

14.23. D-Board Block Diagram

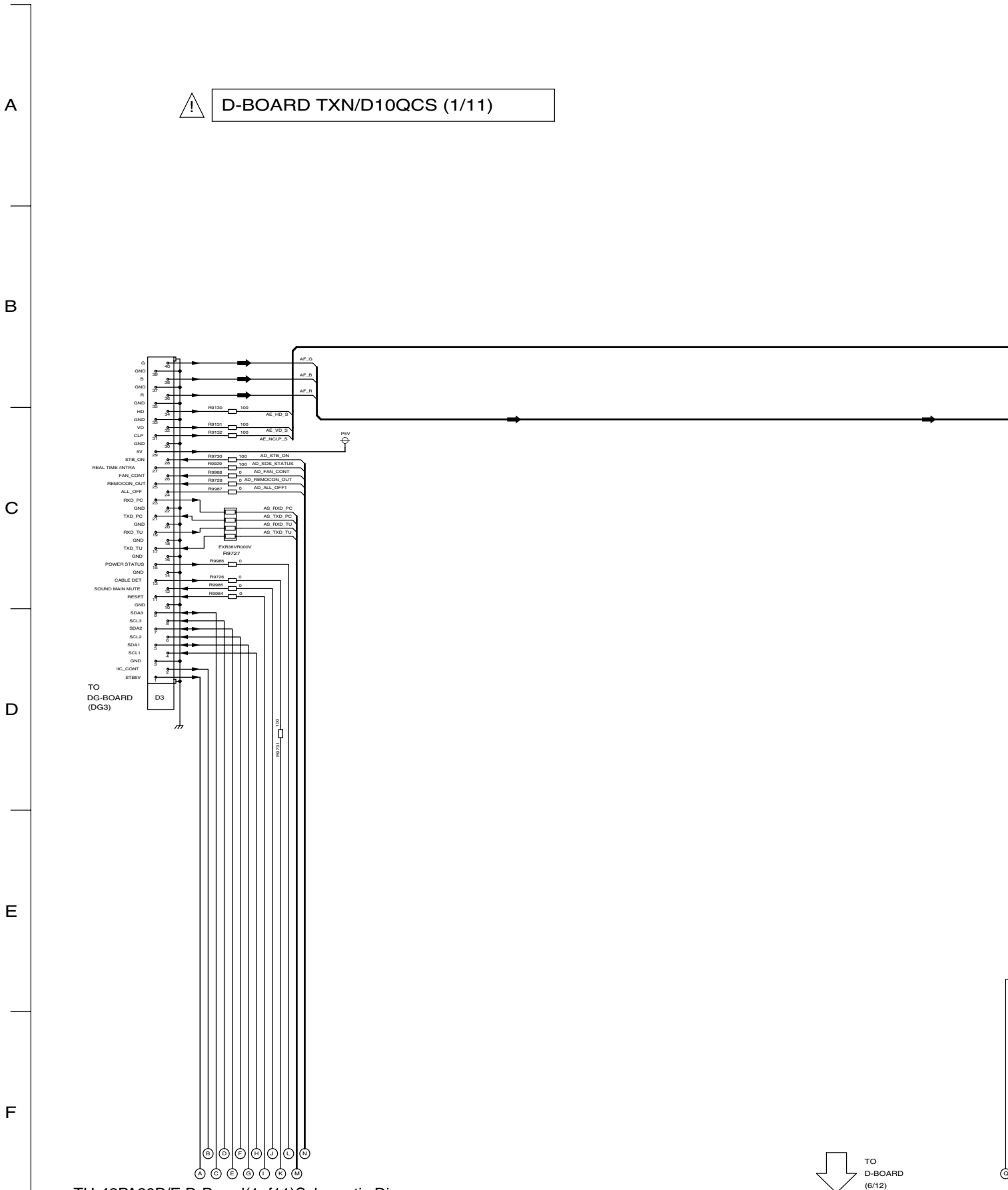


TH-42PA20B/E D-Board Block Diagram

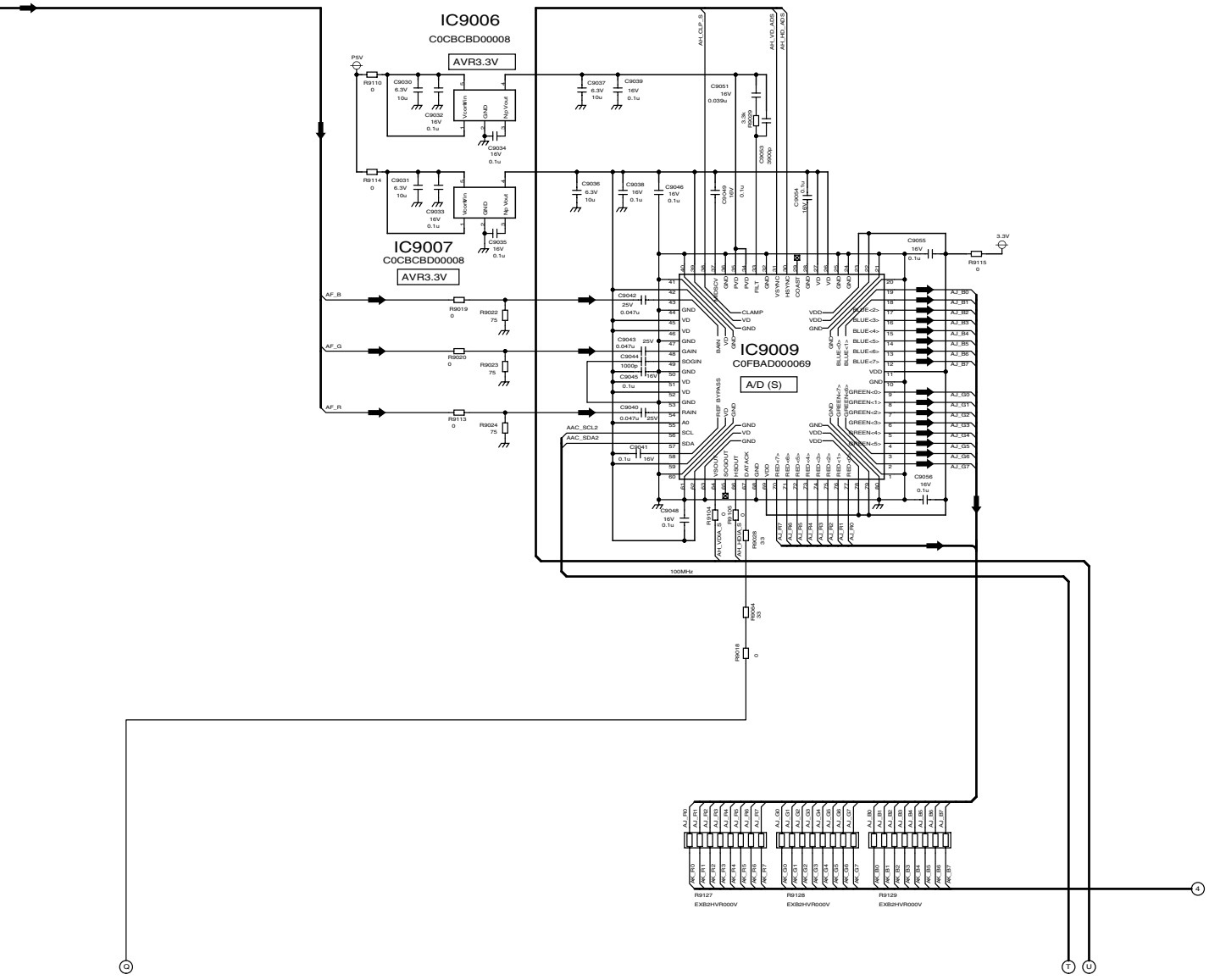


TH-42PA20B/E D-Board Block Diagram

14.24. D-Board (1 of 11) Schematic Diagram



TH-42PA20B/E D-Board(1of11)Schematic Diagram



TH-42PA20B/E D-Board(1of11)Schematic Diagram

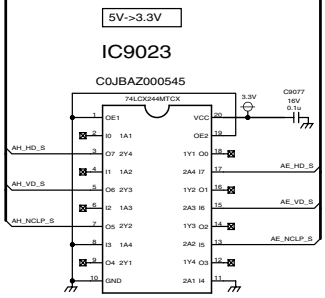
14.25. D-Board (2 of 11) Schematic Diagram

D-BOARD TXN/D10QCS (2/11)

TH-42PA20B/E
D-Board(2of11)Schematic Diagram

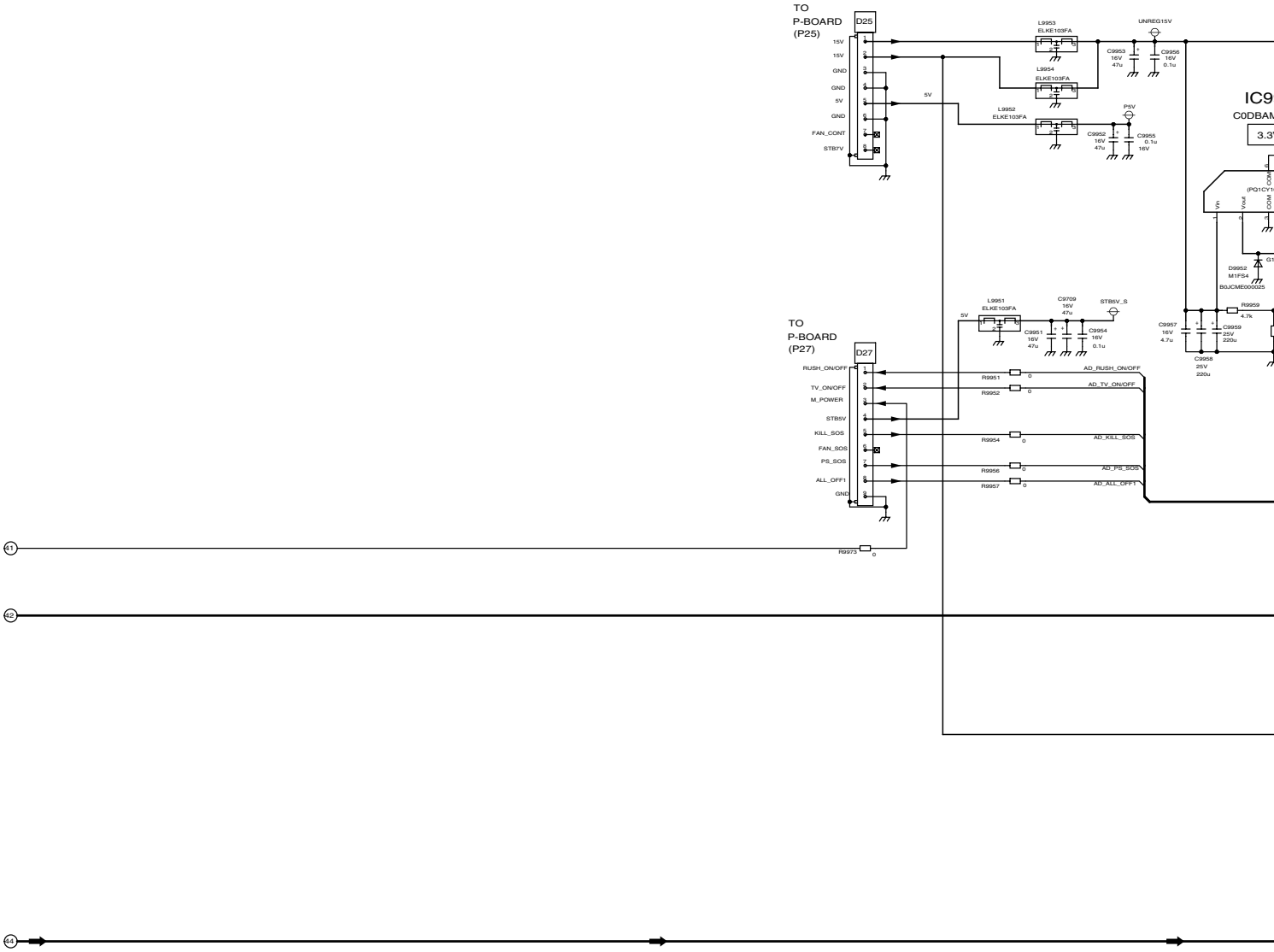
TO
D-BOARD
(7/11)

10 11 12 13 14


5V->3.3V
IC9023
C0JBAZ000545
74LCX244MTCX
3.3V
C9077
16V
0.1u
AH_HD_S
AH_VD_S
AH_NCLP_S
AE_HD_S
AE_VD_S
AE_NCLP_S
OE1
I0 1A1
O7 2Y4
I1 1A2
O6 2Y3
I2 1A3
O5 2Y2
I3 1A4
O4 2Y1
GND
VCC
OE2
1Y1 O0
2A4 I7
1Y2 O1
2A3 I6
1Y3 O2
2A2 I5
1Y4 O3
2A1 I4

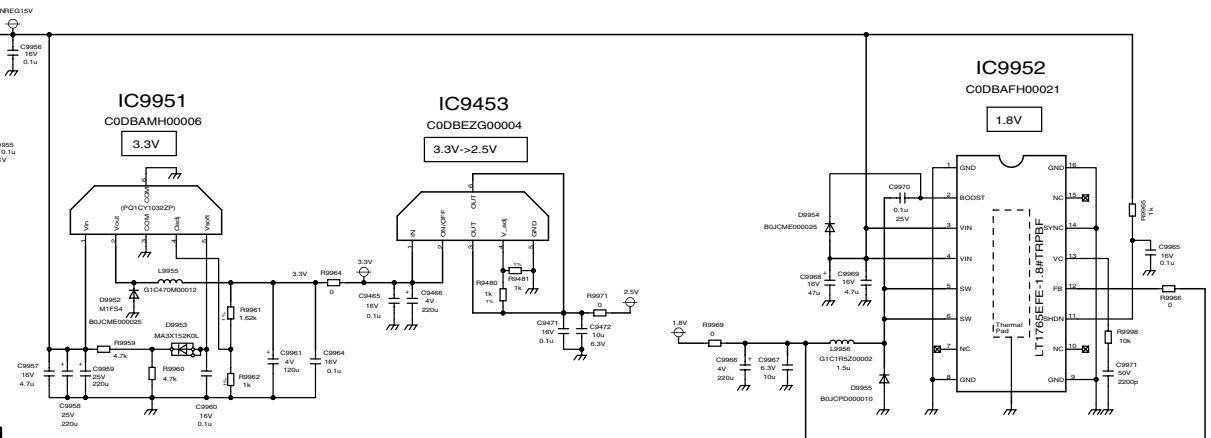
14.26. D-Board (3 of 11) Schematic Diagram

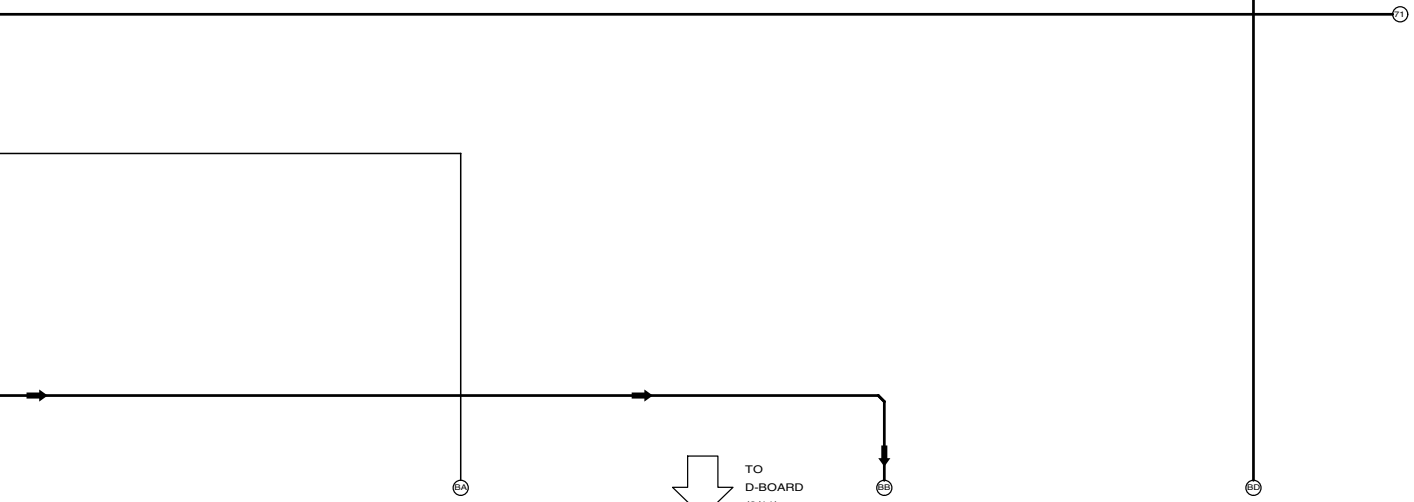
D-BOARD TXN/D10QCS (3/11)



TH-42PA20B/E
D-Board(3of11)Schematic Diagram

19	20	21	22	23





TH-42PA20B/E D-Board(3of11)Schematic Diagram

23 24 25 26 27

14.27. D-Board (4 of 11) Schematic Diagram

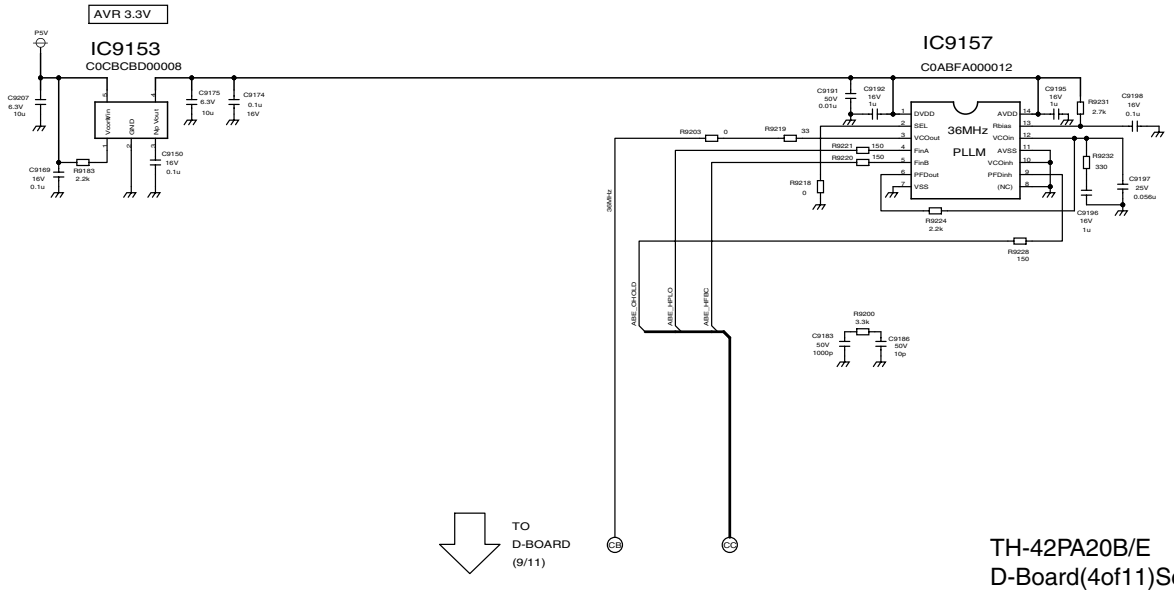
D-BOARD



TH-42PA20B/E D-Board(4of11)Schematic Diagram

28 29 30 31 32

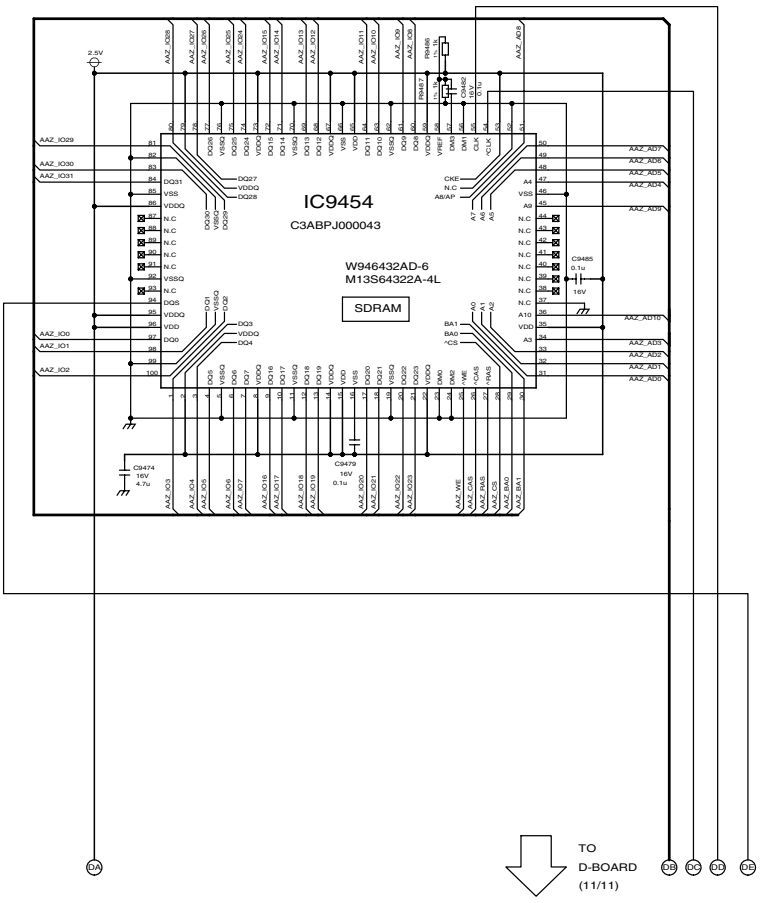
D-BOARD TXN/D10QCS (4/11)



TH-42PA20B/E
D-Board(4of11)Schematic Diagram

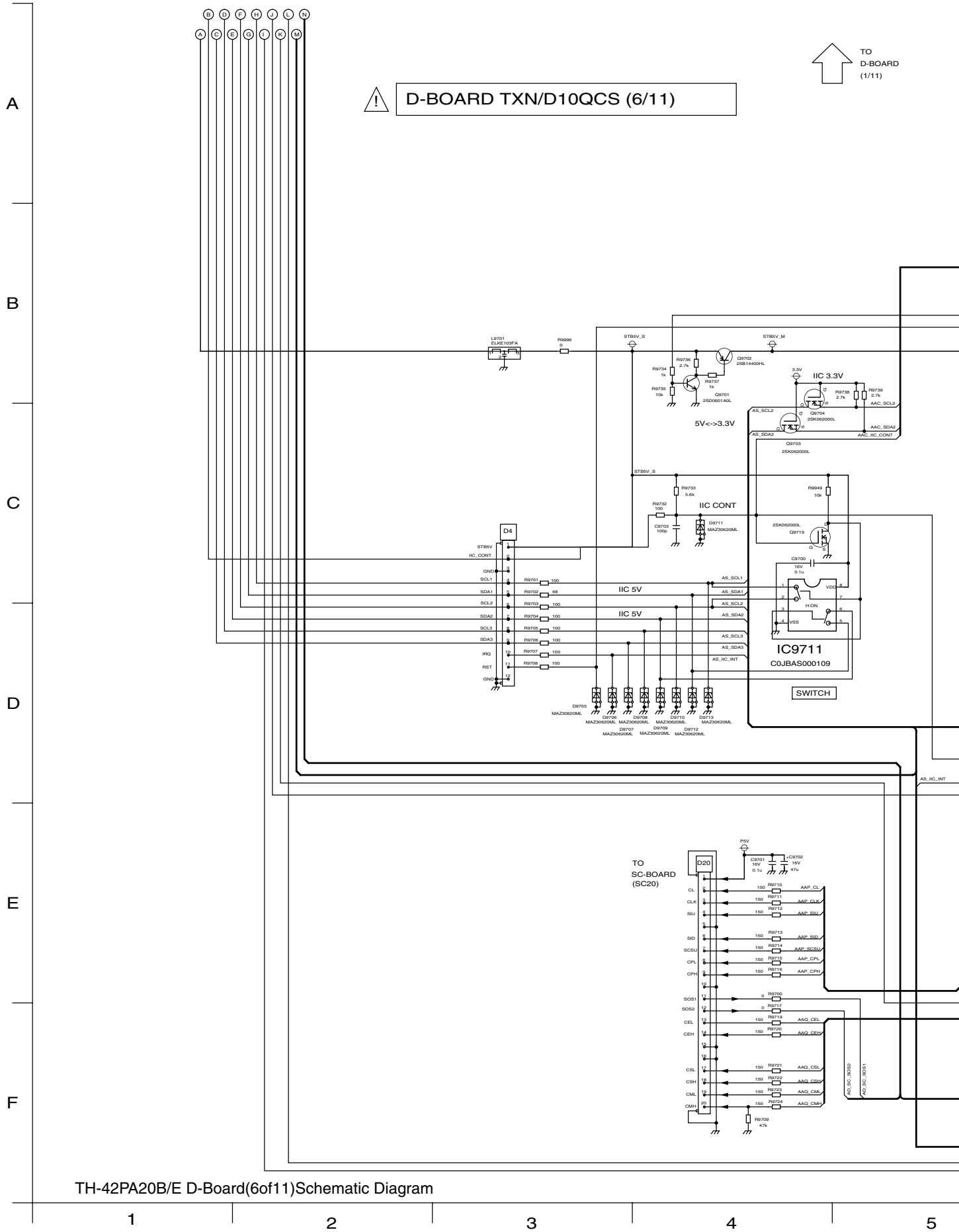
14.28. D-Board (5 of 11) Schematic Diagram

D-BOARD TXN/D10QCS (5/11)

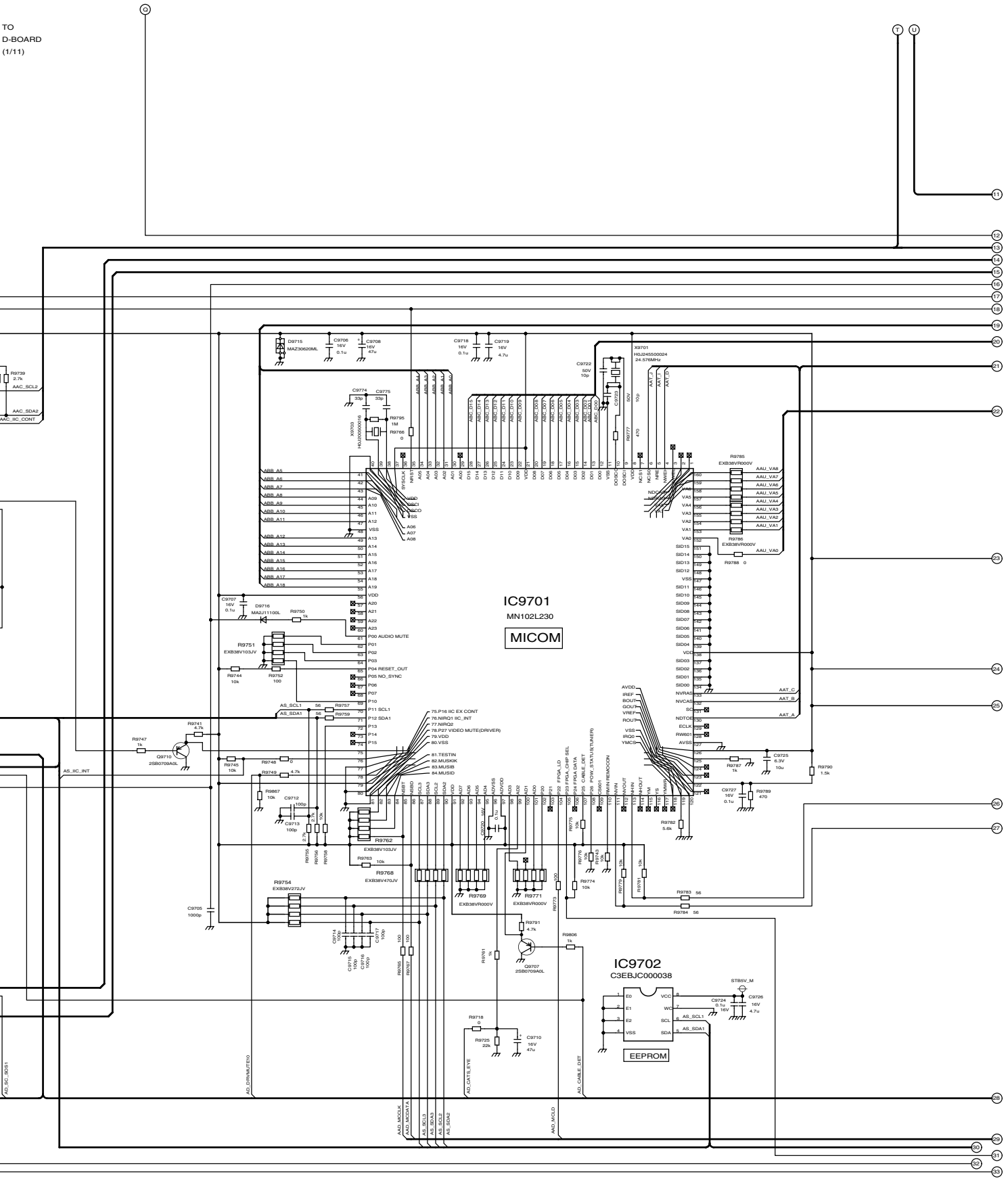


TH-42PA20B/E
D-Board(5of11)Schematic Diagram

14.29. D-Board (6 of 11) Schematic Diagram

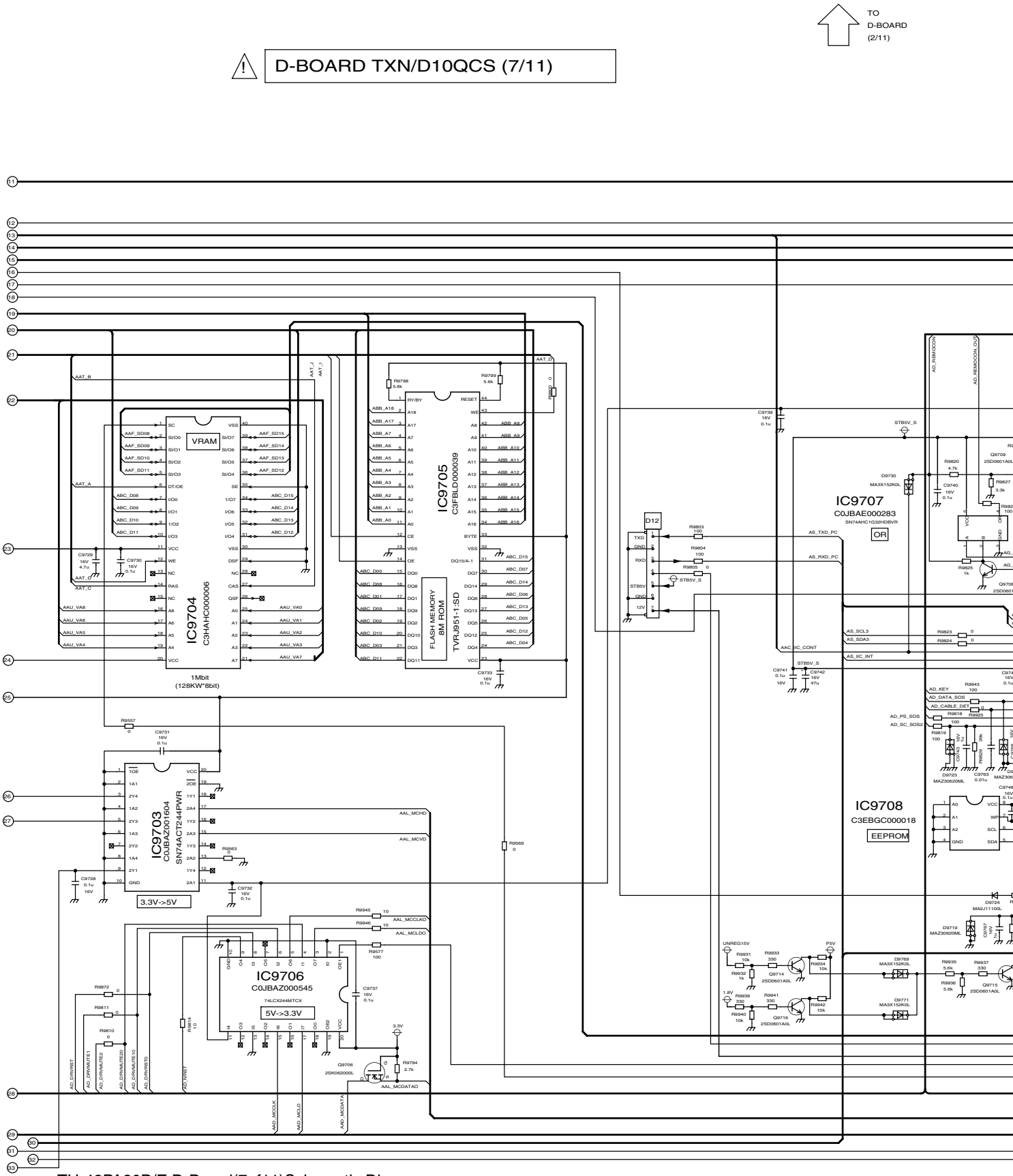


TH-42PA20B/E D-Board(6of11)Schematic Diagram



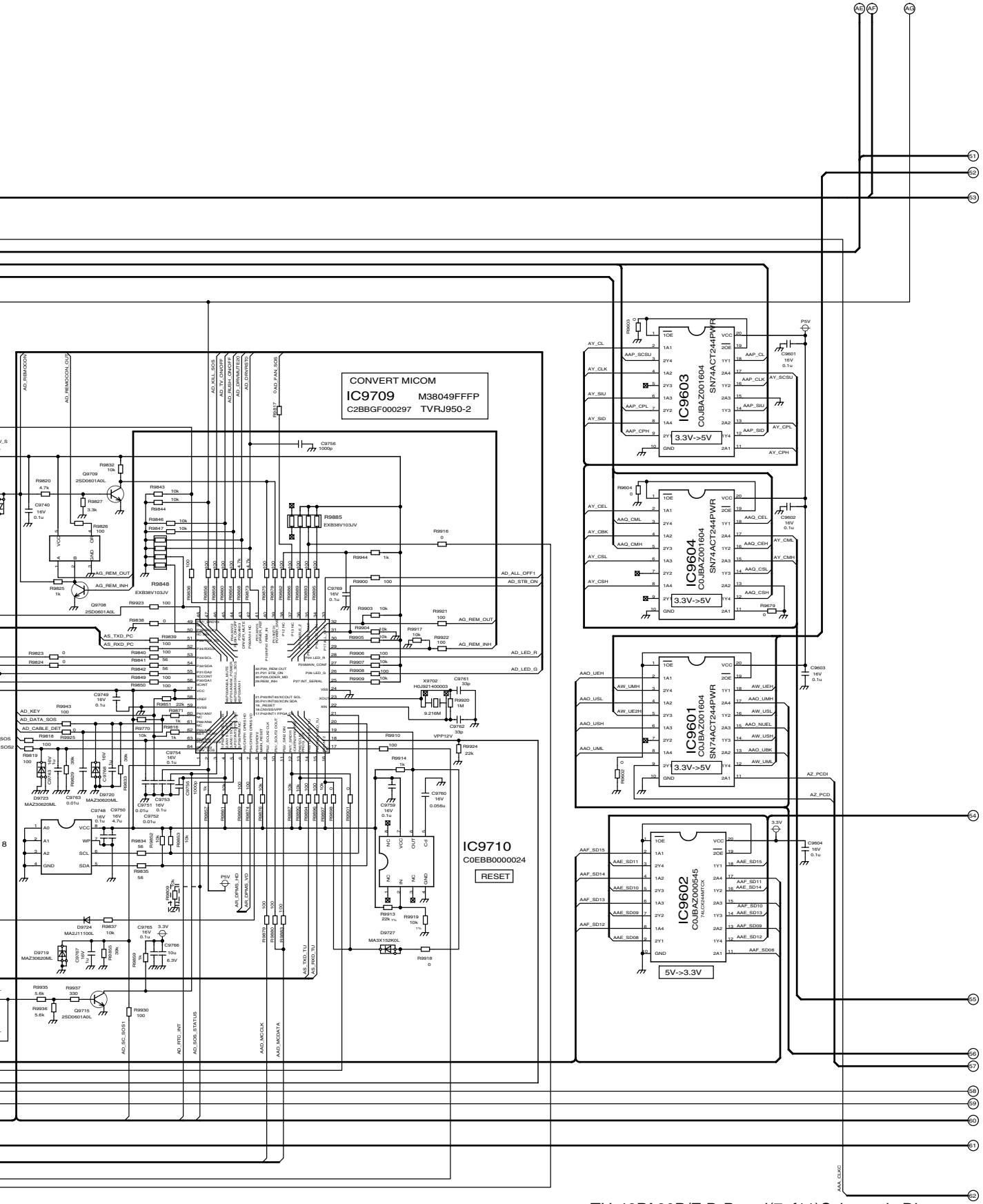
TH-42PA20B/E D-Board(6of11)Schematic Diagram

14.30. D-Board (7 of 11) Schematic Diagram



TH-42PA20B/E D-Board(7of11)Schematic Diagram

10	11	12	13	14

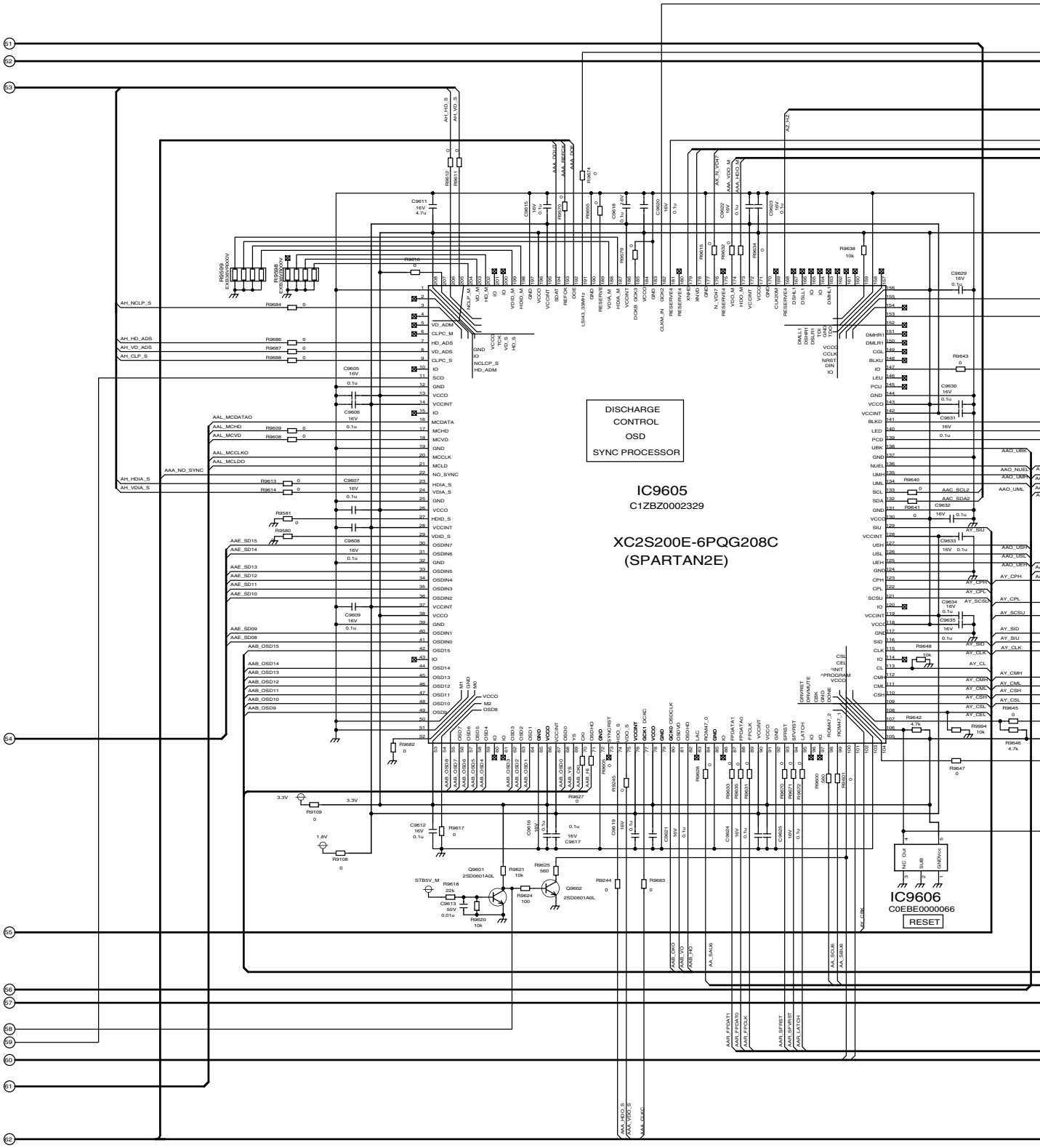


TH-42PA20B/E D-Board(7of11)Schematic Diagram

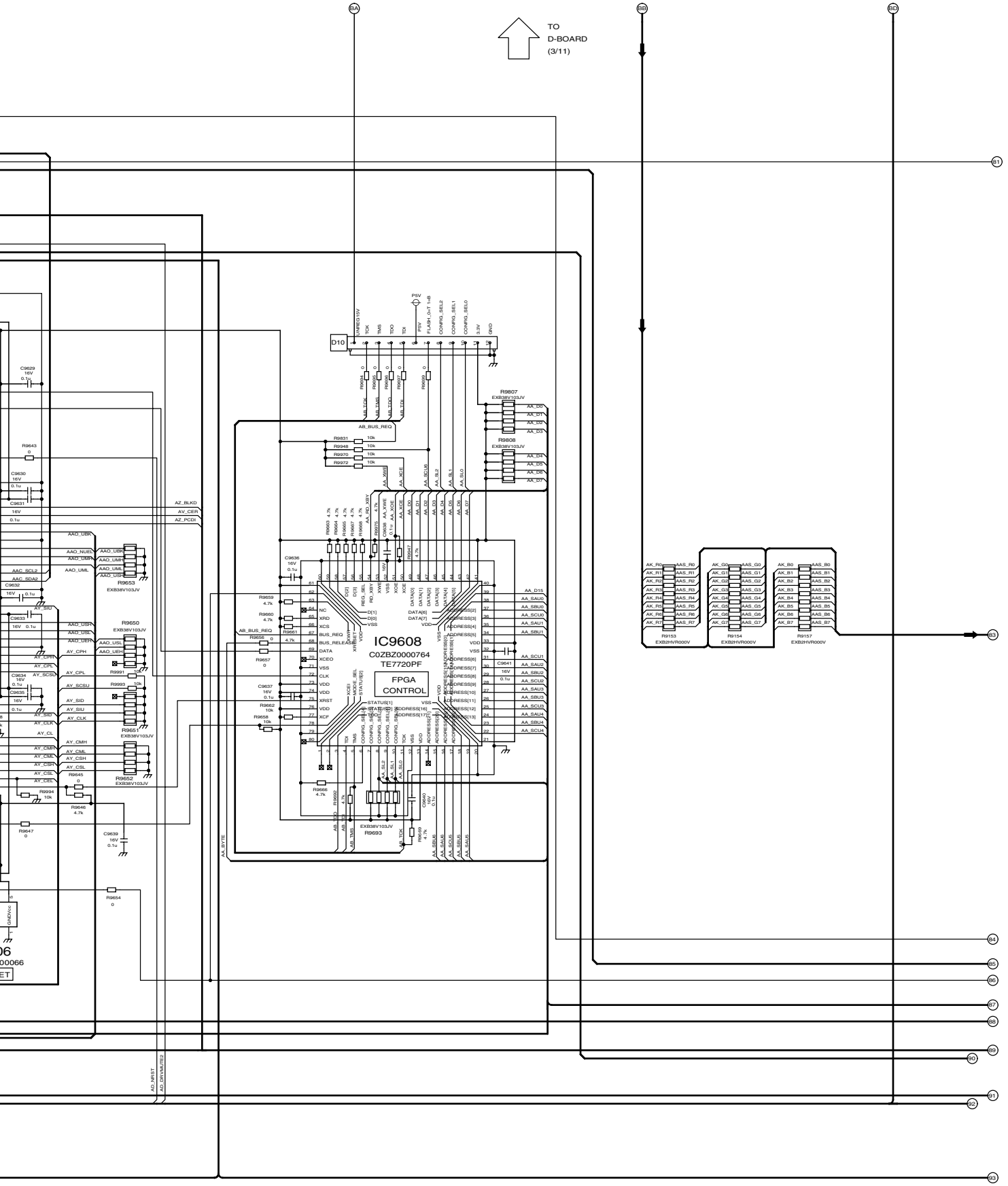
14 15 16 17 18

14.31. D-Board (8 of 11) Schematic Diagram

D-BOARD TXN/D10QCS (8/11)

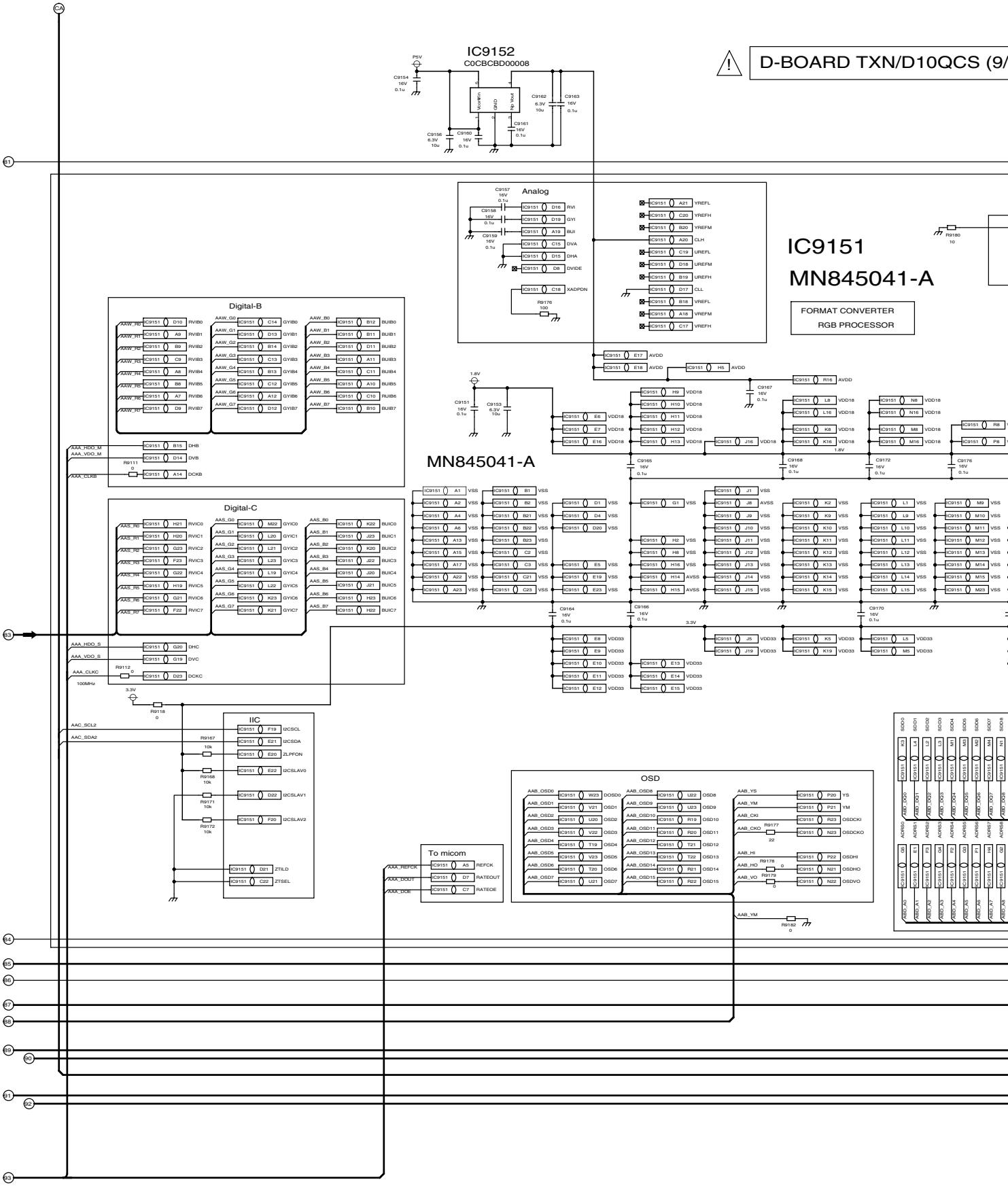


TH-42PA20B/E D-Board(8of11)Schematic Diagram

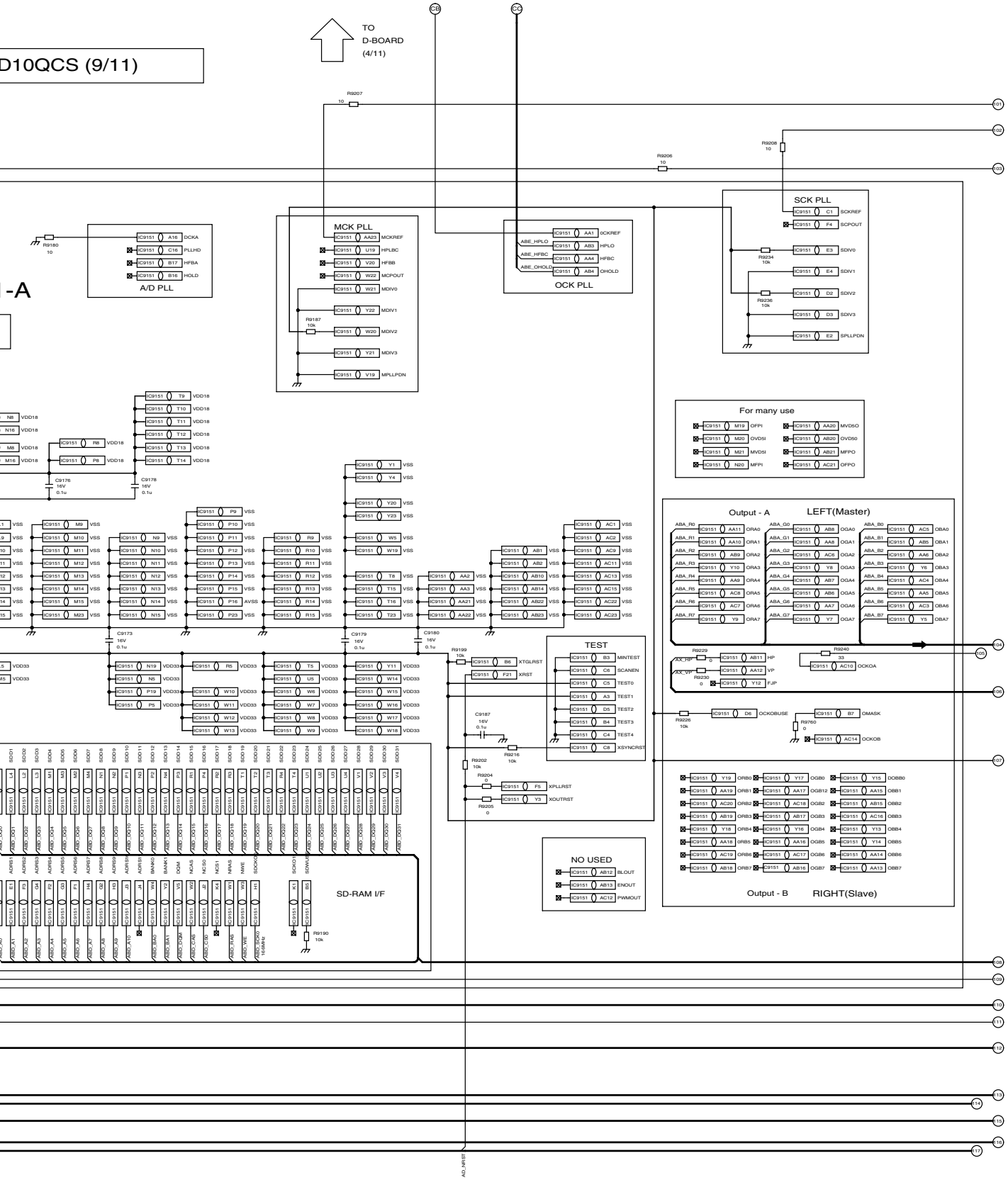


TH-42PA20B/E D-Board(8of11)Schematic Diagram

14.32. D-Board (9 of 11) Schematic Diagram

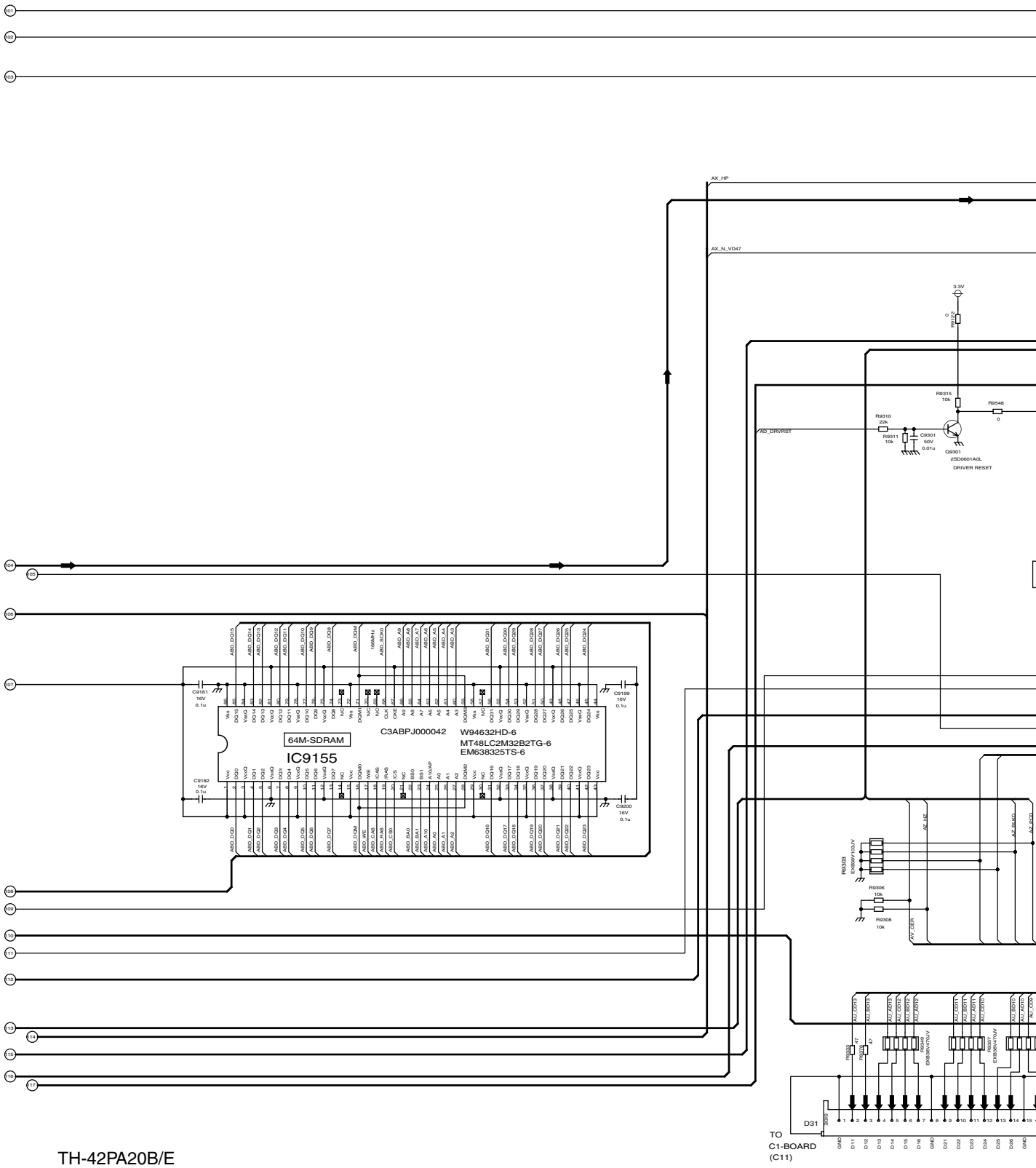


TH-42PA20B/E D-Board(9of11)Schematic Diagram

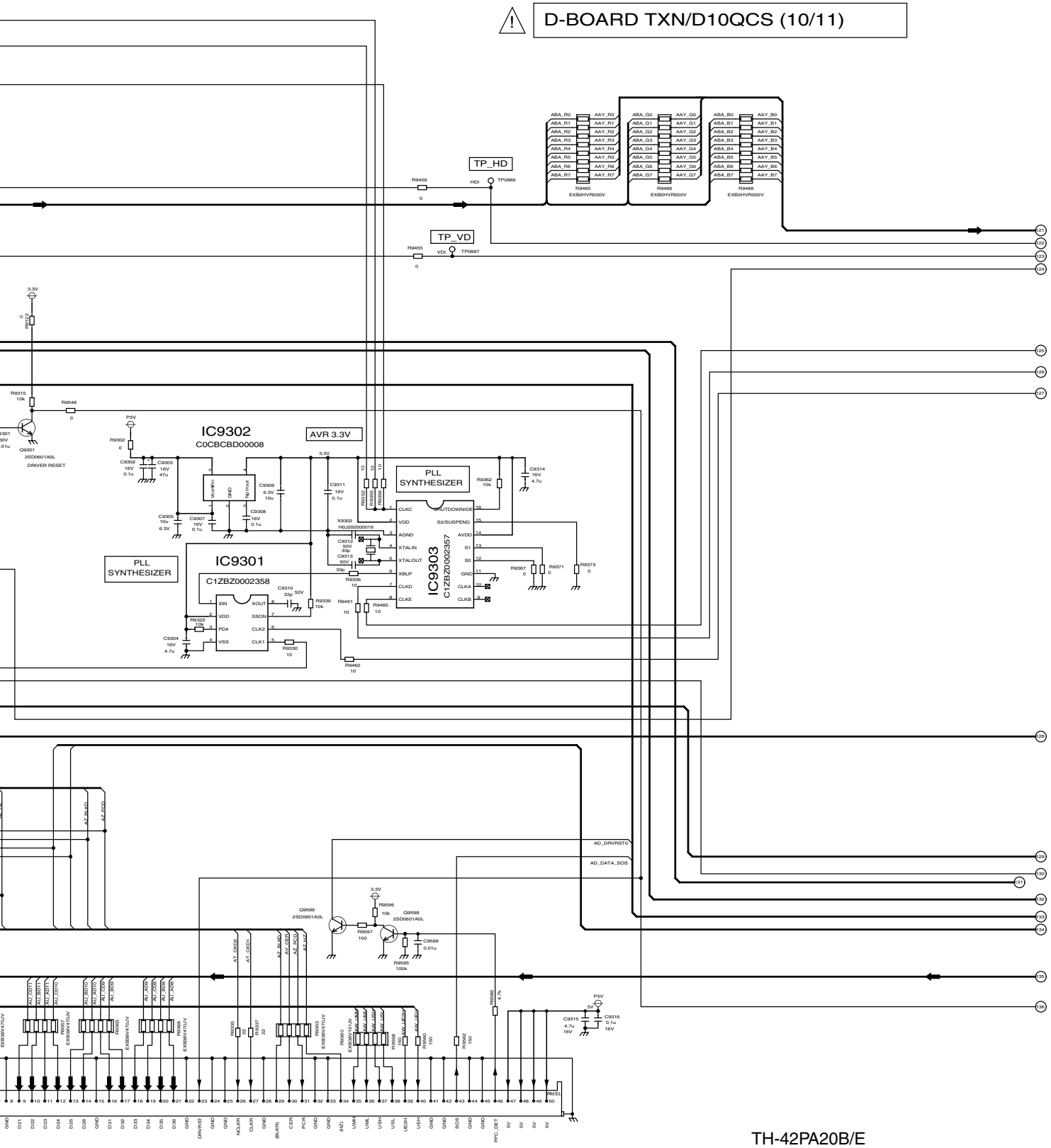


TH-42PA20B/E
D-Board(9of11)Schematic Diagram

14.33. D-Board (10 of 11) Schematic Diagram

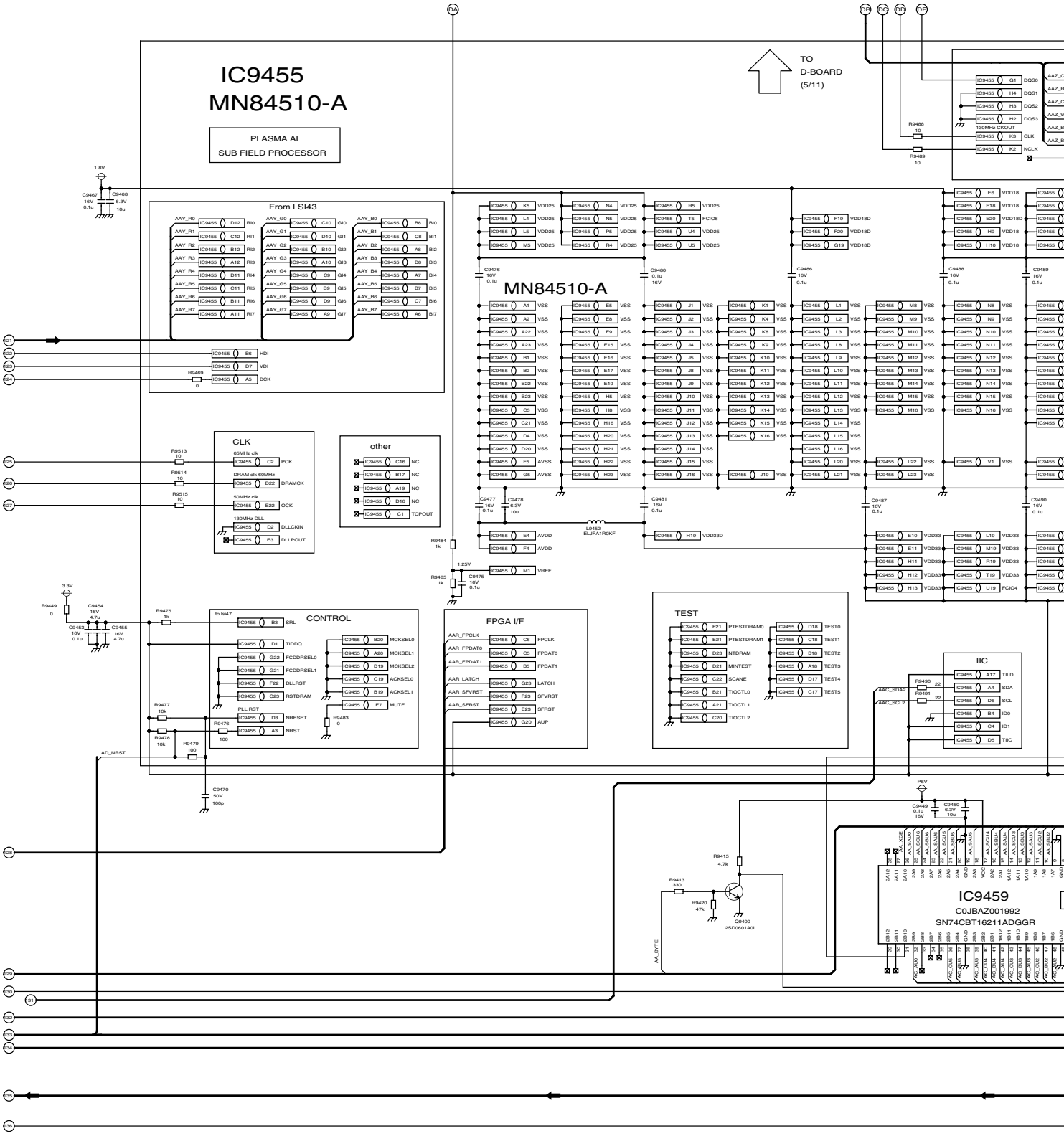


TH-42PA20B/E
D-Board(10of11)Schematic Diagram

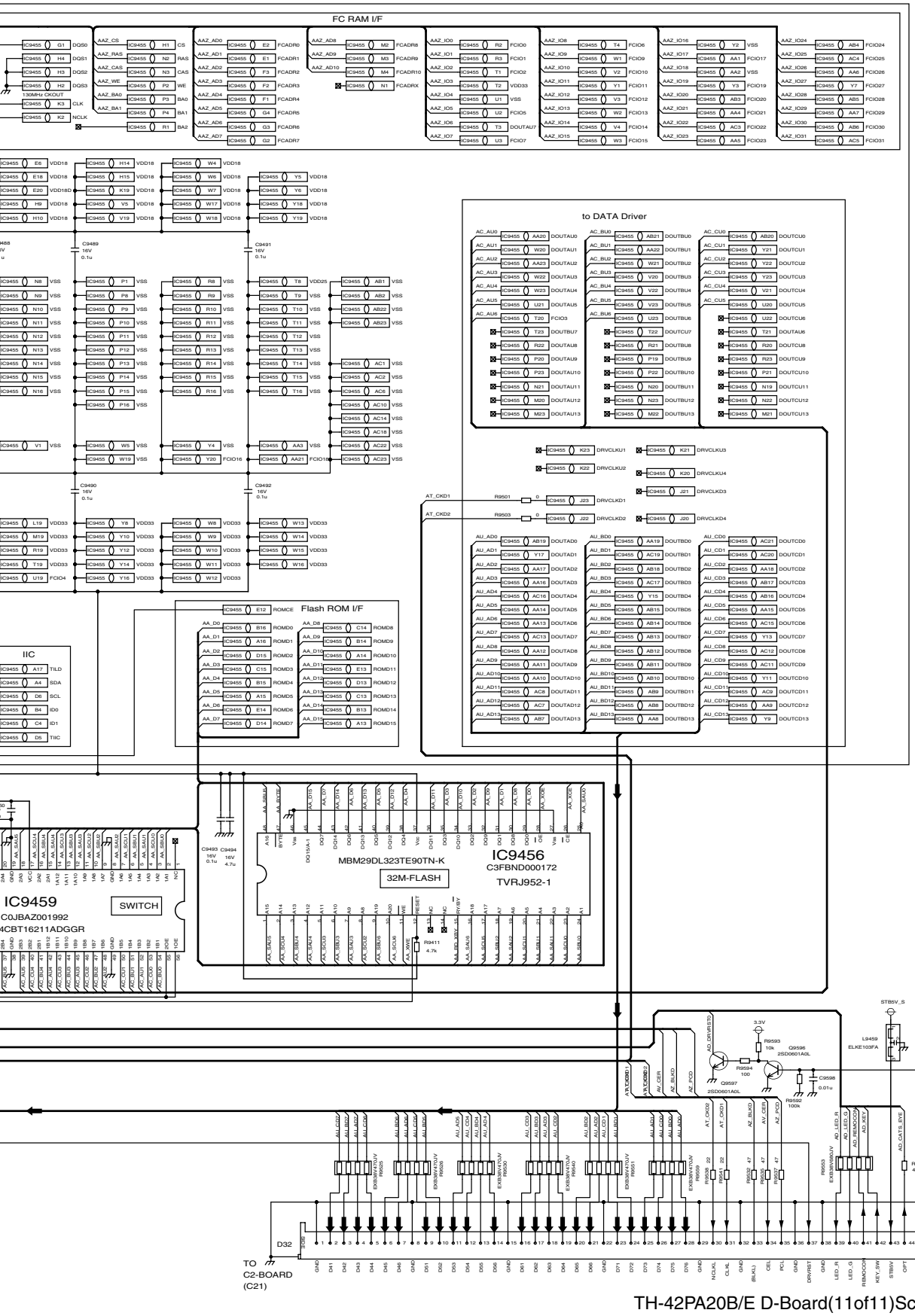


TH-42PA20B/E
D-Board(10of11)Schematic Diagram

14.34. D-Board (11 of 11) Schematic Diagram

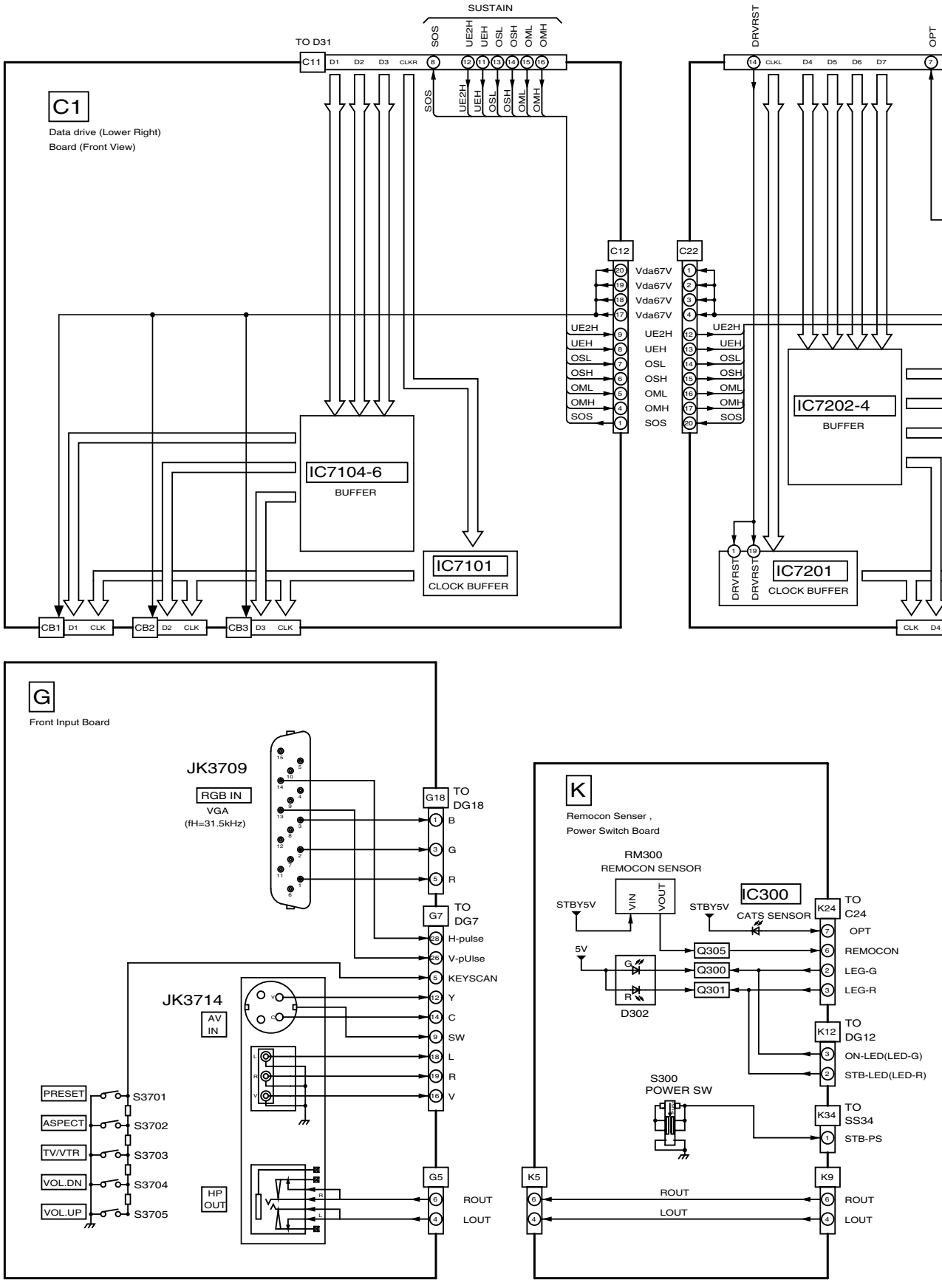


TH-42PA20B/E
D-Board(11of11)Schematic Diagram

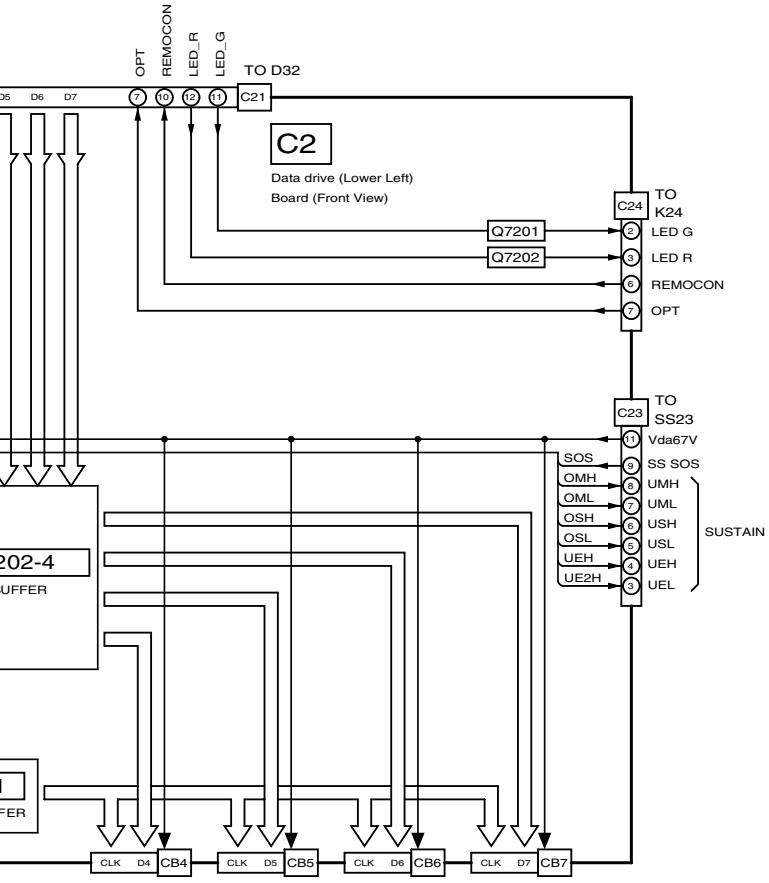


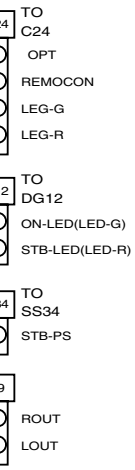
TH-42PA20B/E D-Board(11of11)Schematic Diagram

14.35. C1, C2, G and K-Board Block Diagram



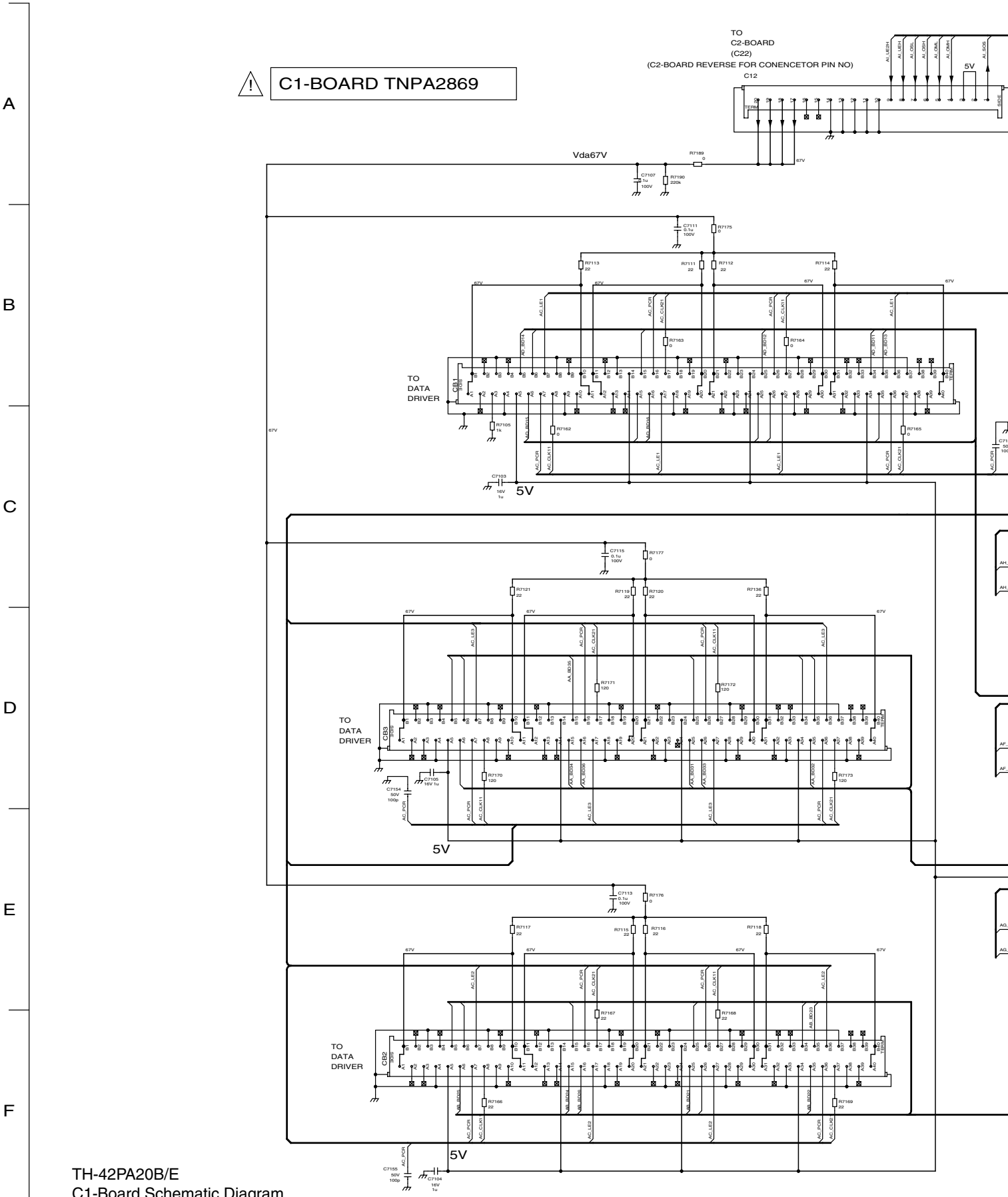
TH-42PA20B/E
C1,C2,G and K-Board Block Diagram



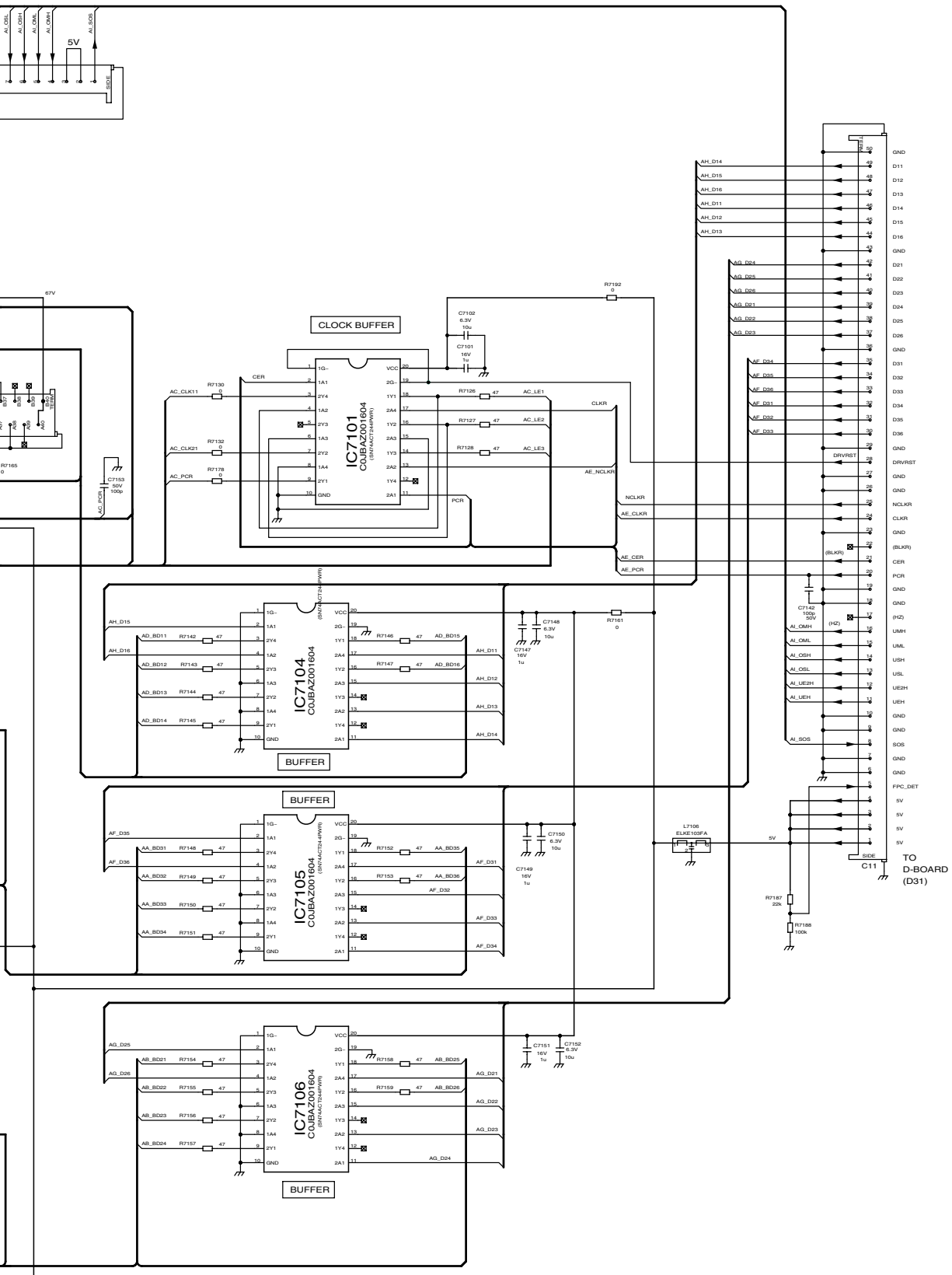


TH-42PA20B/E
C1,C2,G and K-Board Block Diagram

14.36. C1-Board Schematic Diagram

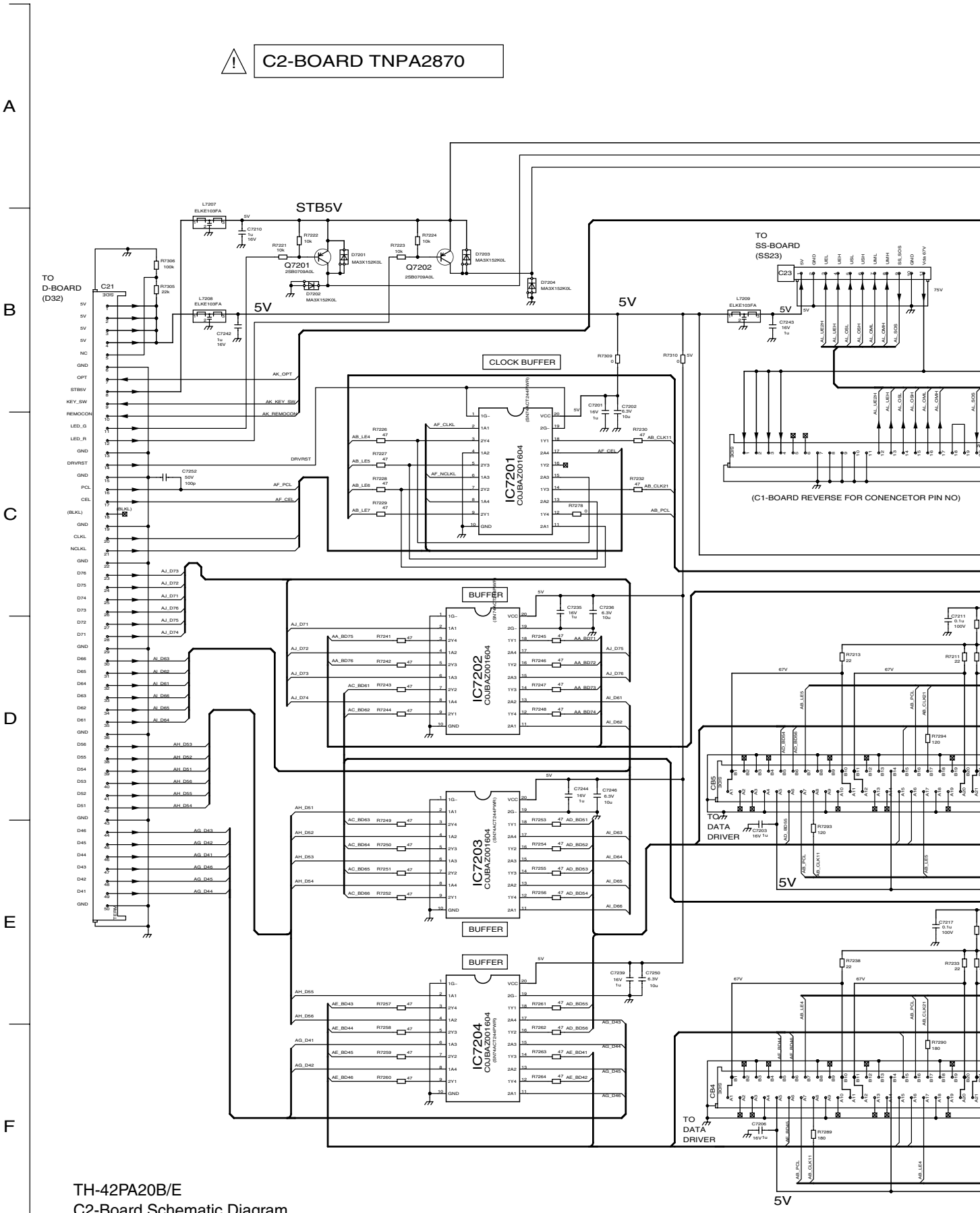


TH-42PA20B/E
C1-Board Schematic Diagram

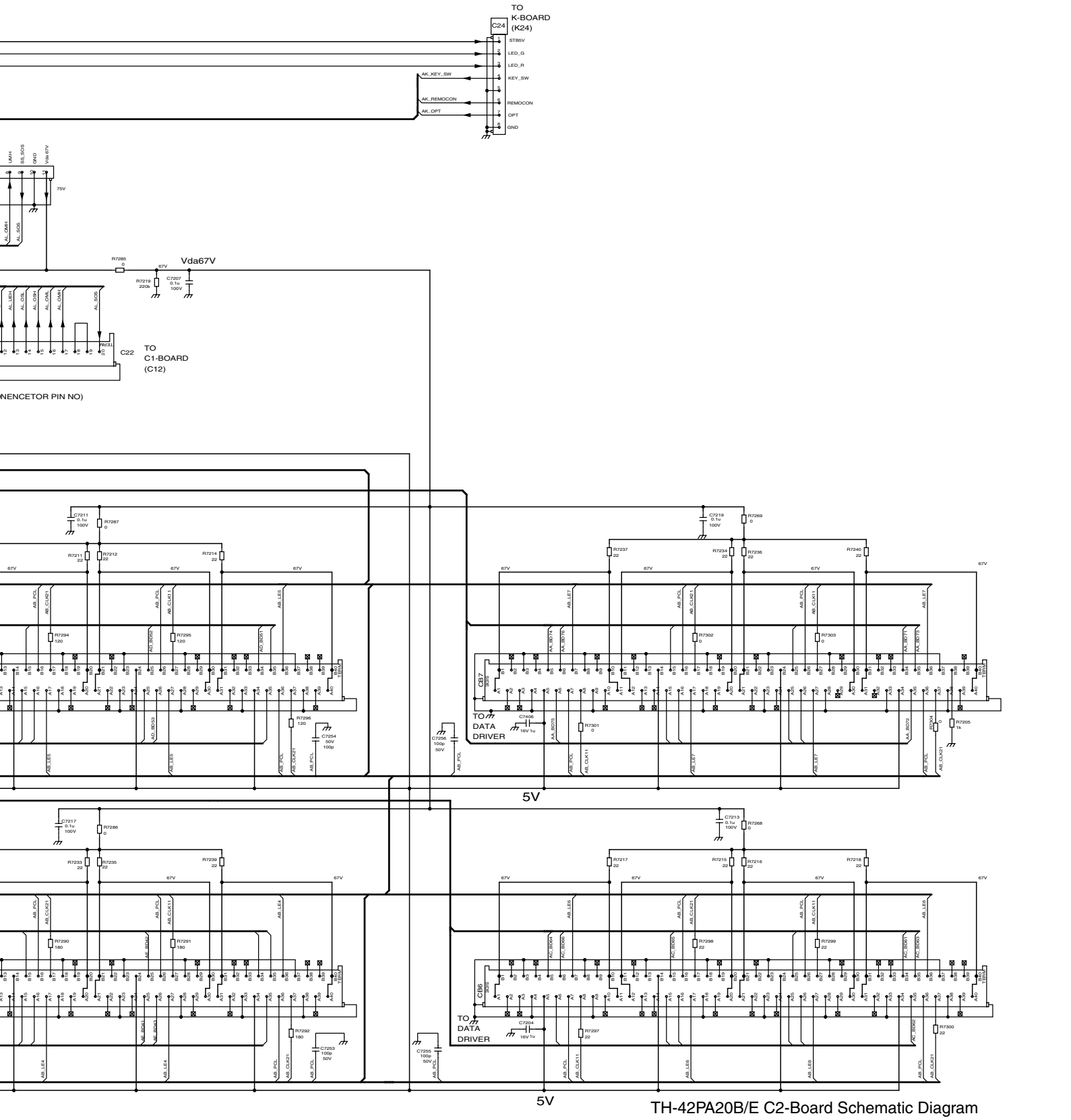


TH-42PA20B/E
C1-Board Schematic Diagram

14.37. C2-Board Schematic Diagram

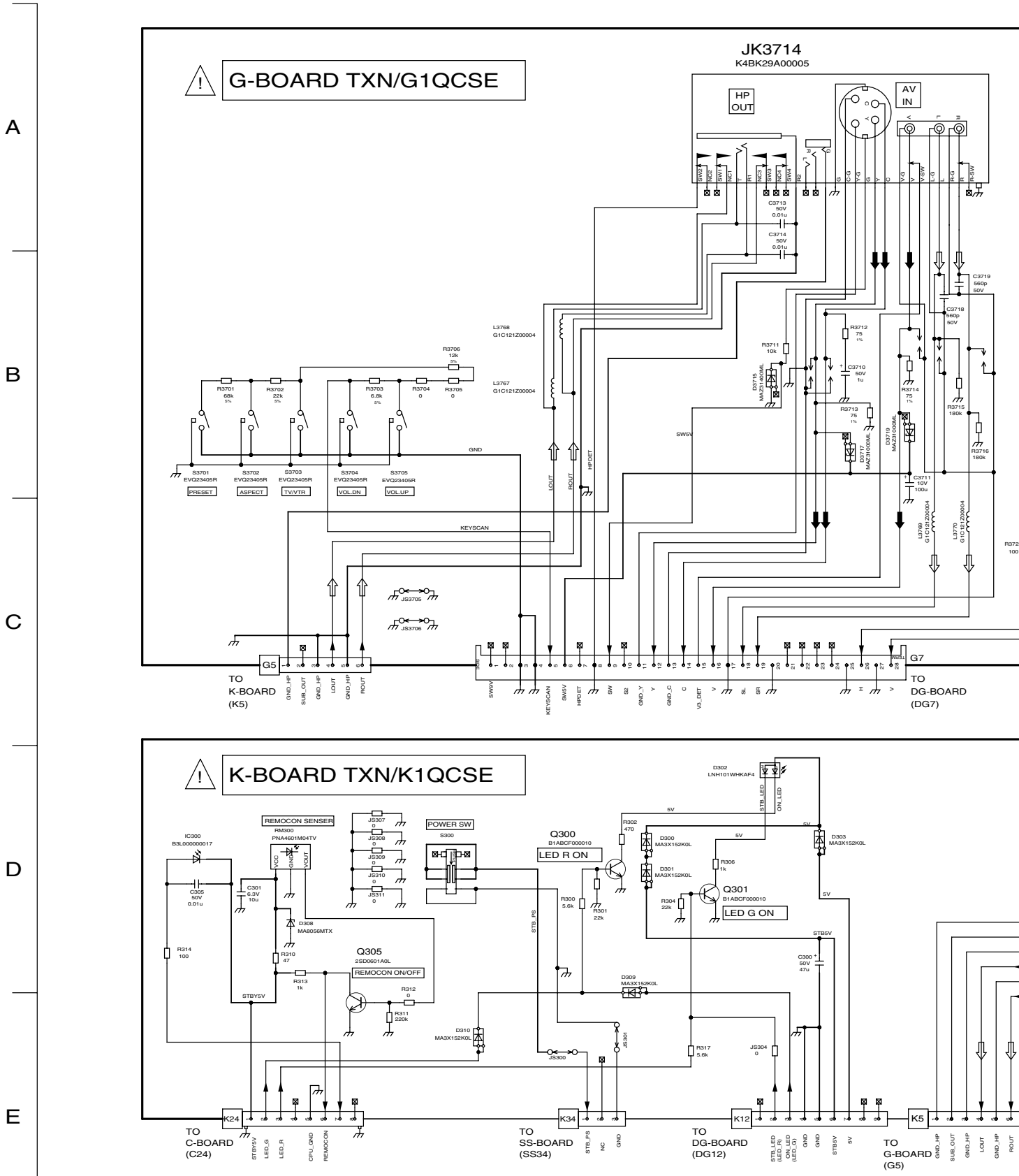


TH-42PA20B/E
C2-Board Schematic Diagram

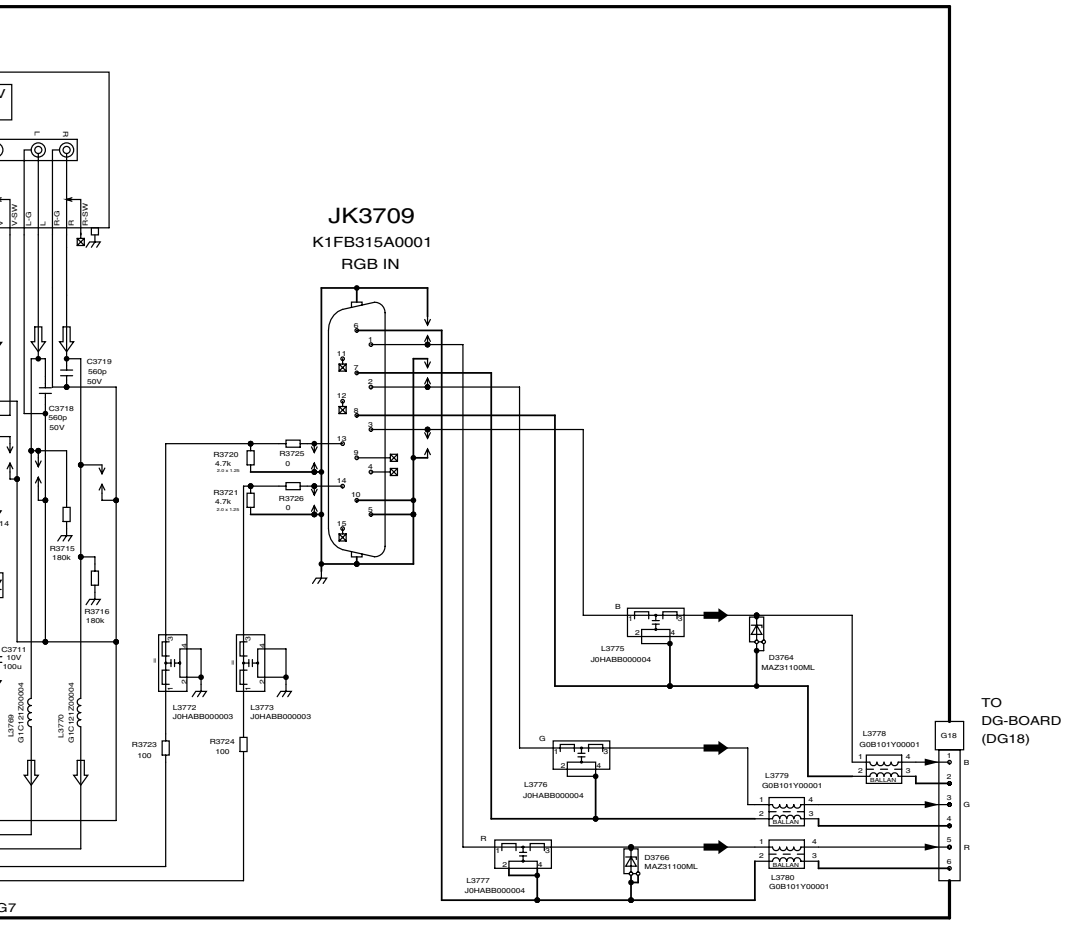


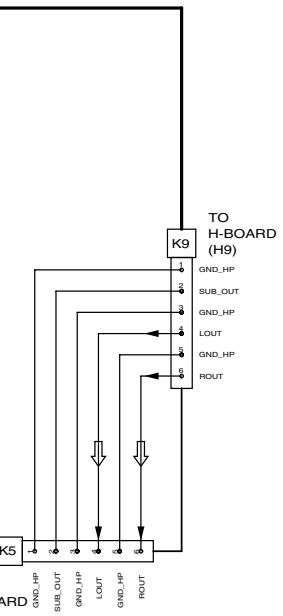
TH-42PA20B/E C2-Board Schematic Diagram

14.38. G and K-Board Schematic Diagram



TH-42PA20B/E
G and K-Board Schematic Diagram

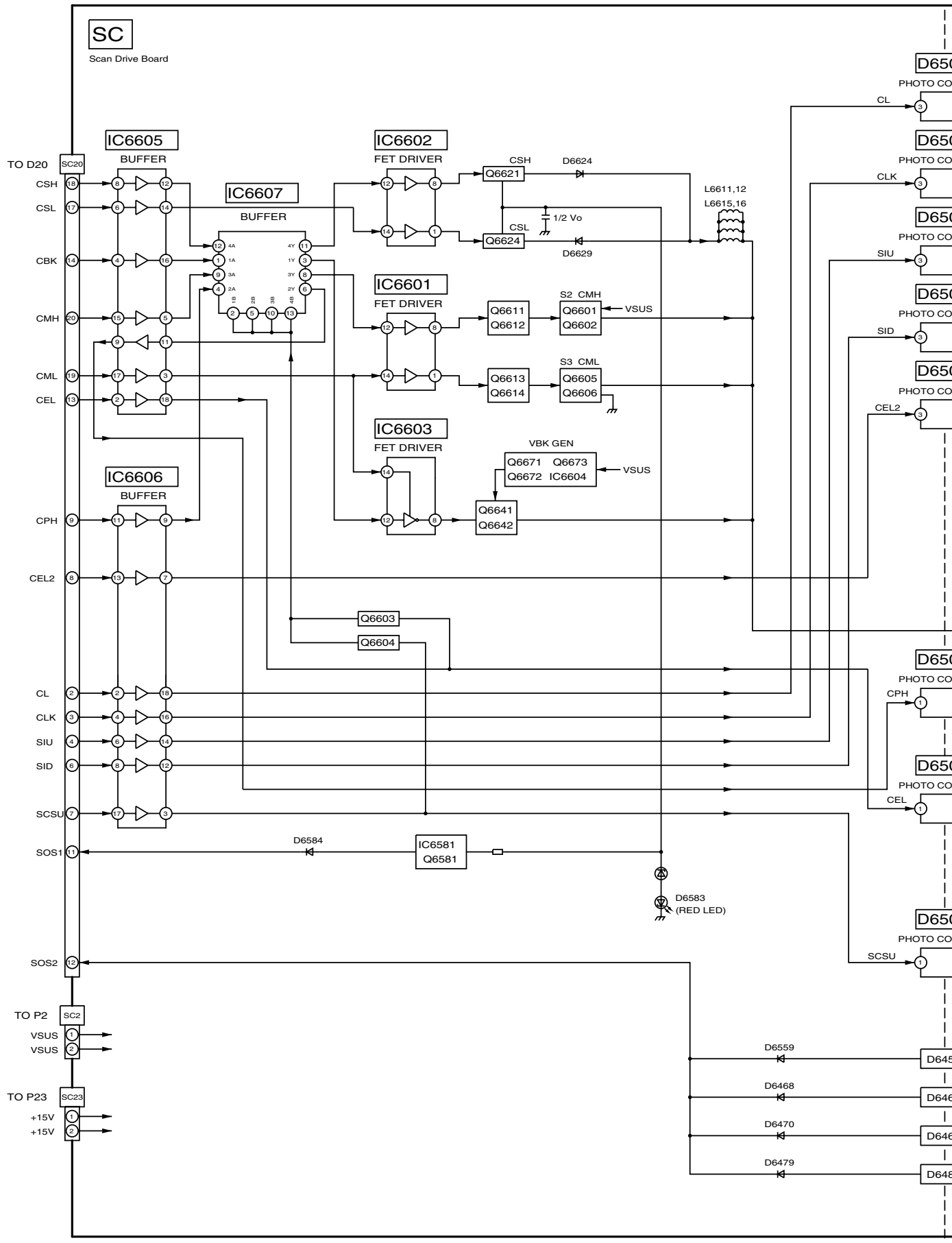




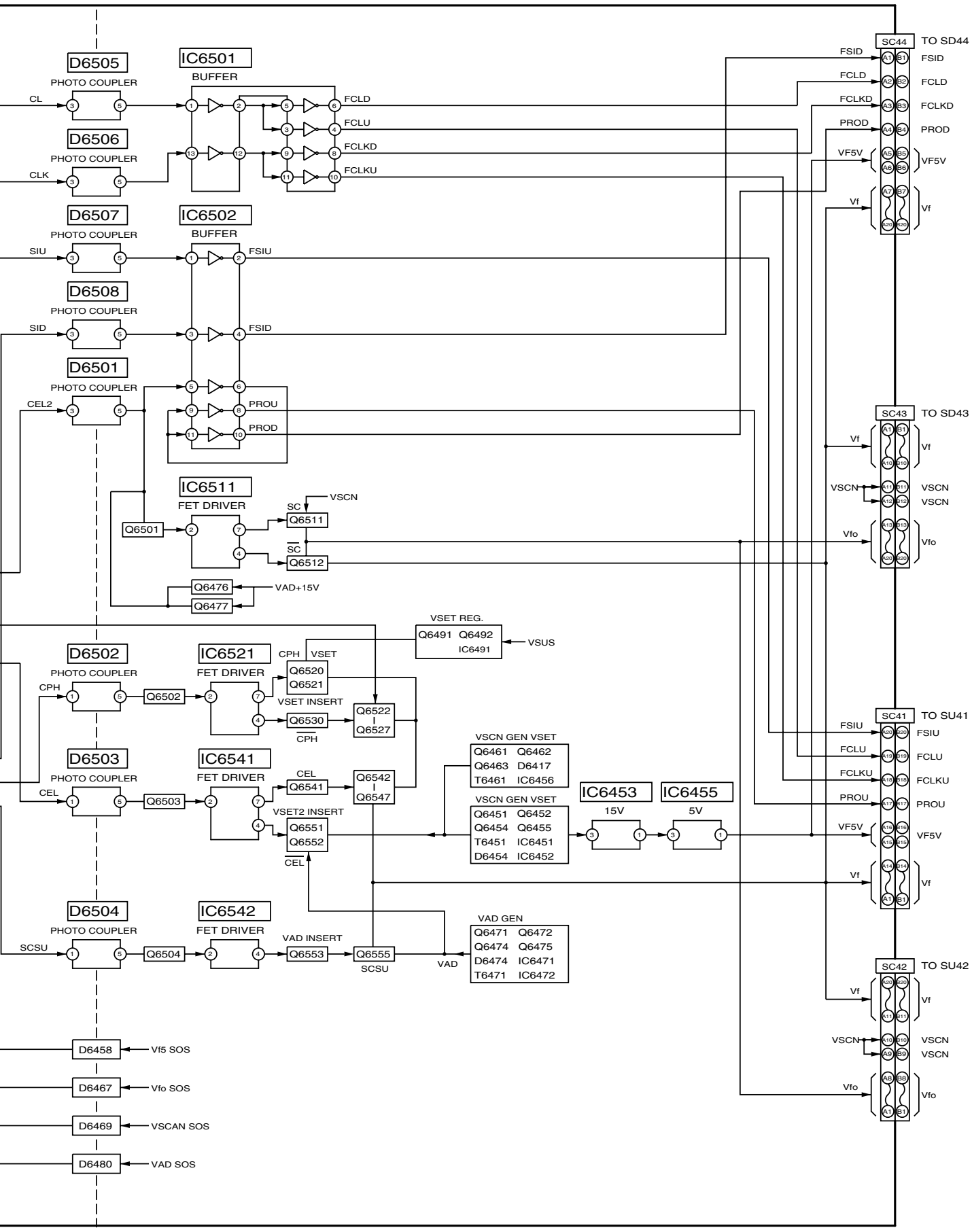
TH-42PA20B/E
G and K-Board Schematic Diagram

5 6 7

14.39. SC-Board Block Diagram

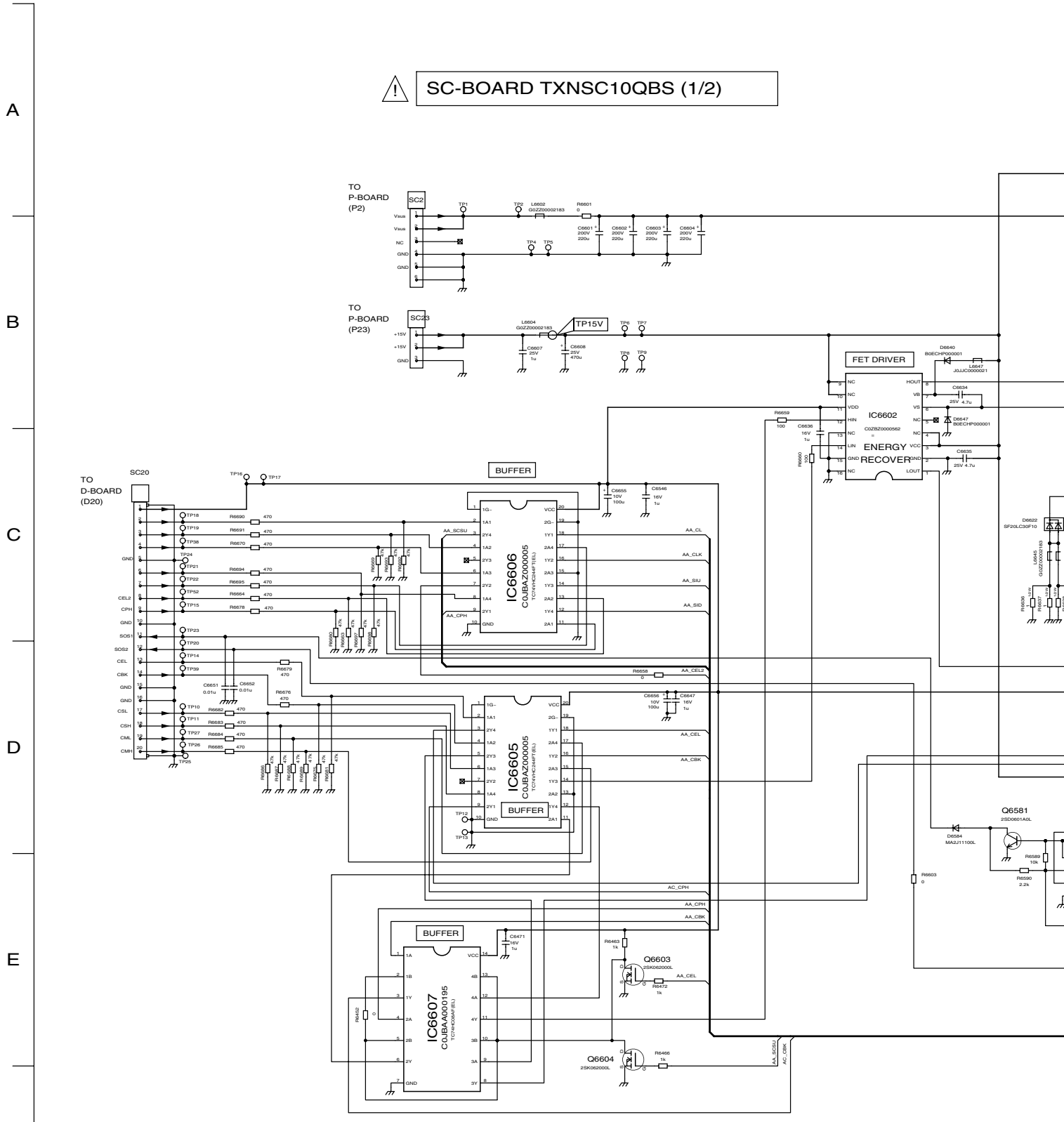


TH-42PA20B/E
SC-Board Block Diagram

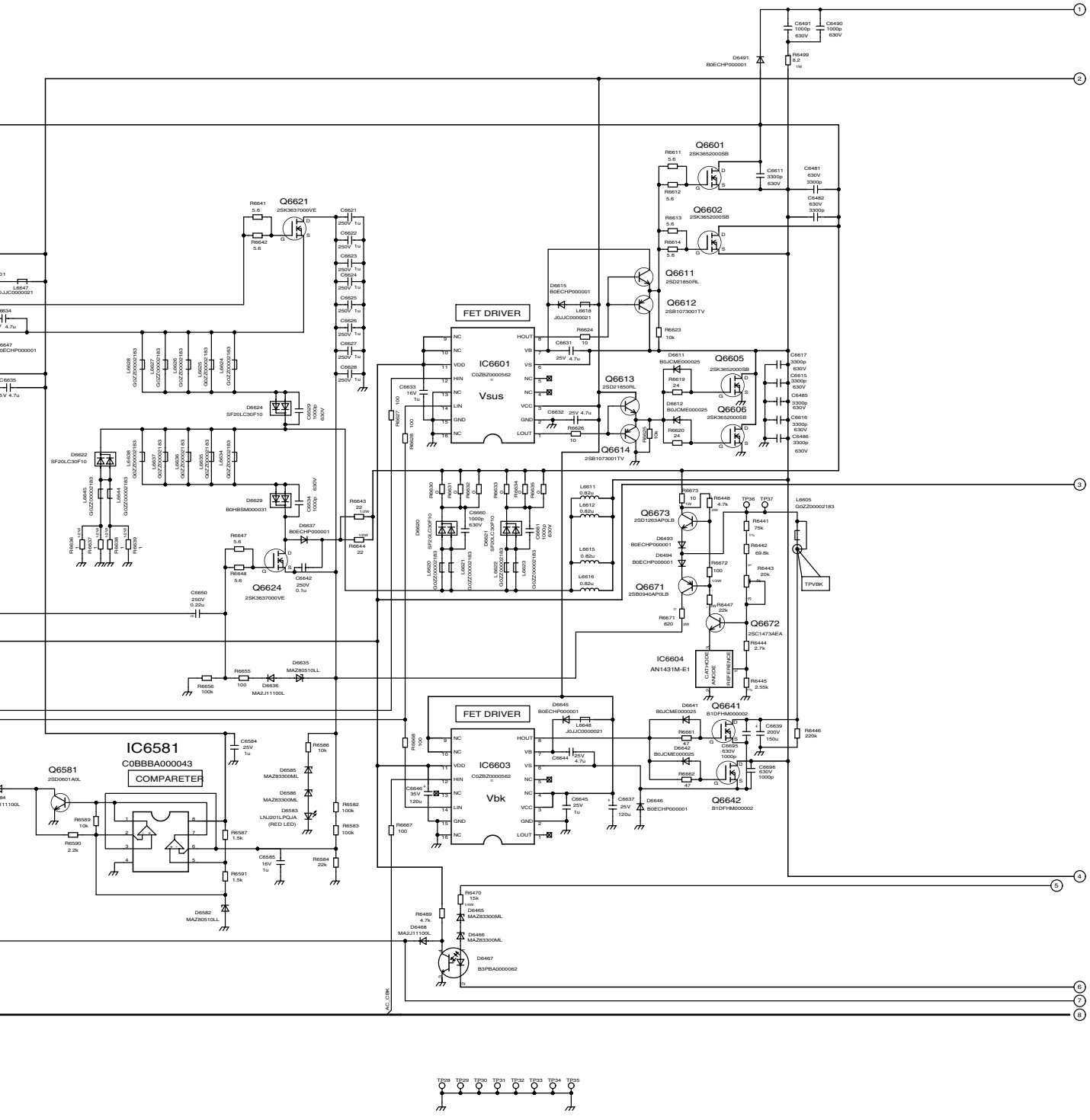


TH-42PA20B/E
SC-Board Block Diagram

14.40. SC-Board (1 of 2) Schematic Diagram

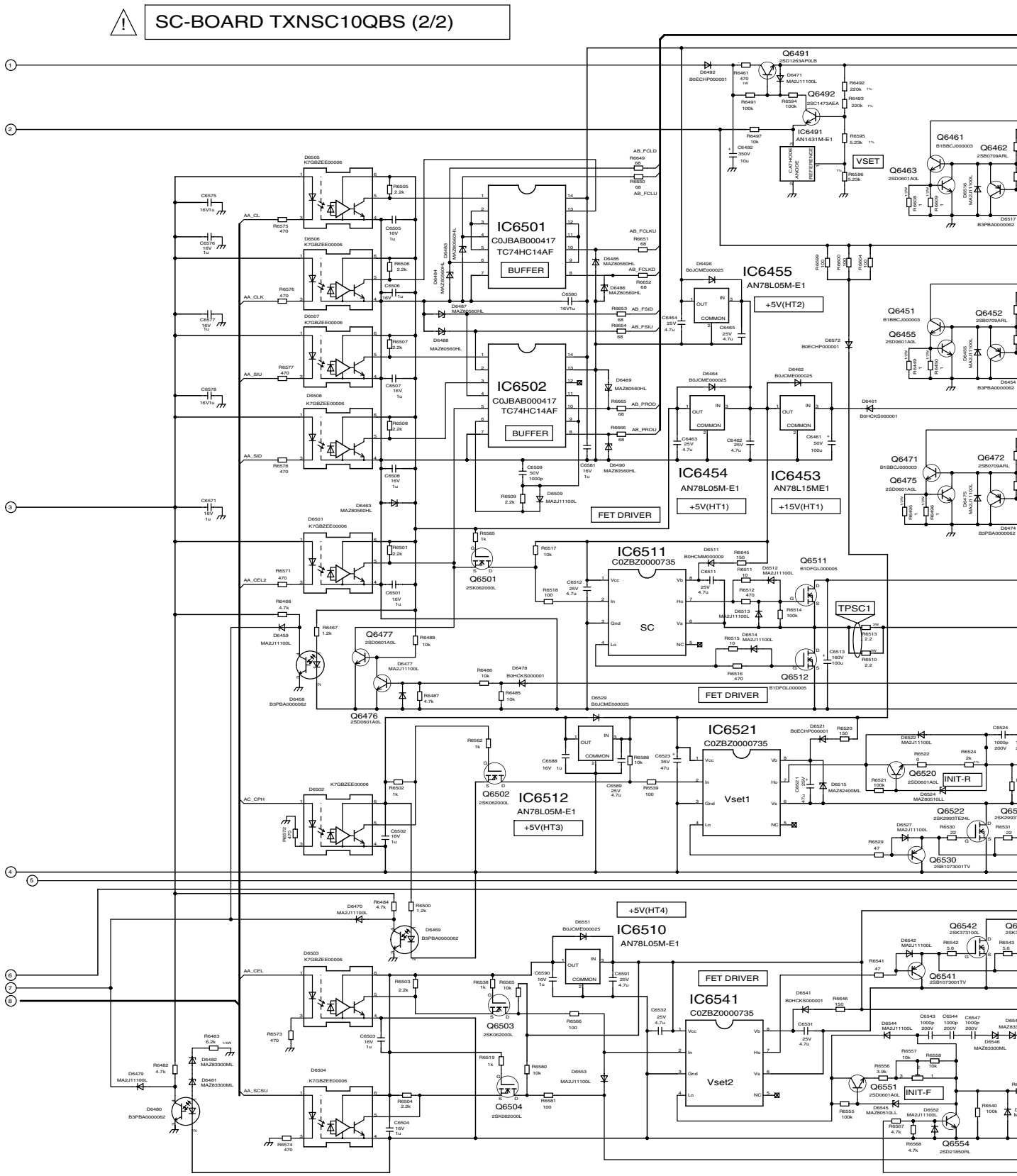


TH-42PA20B/E
SC-Board(1of2)Schematic Diagram

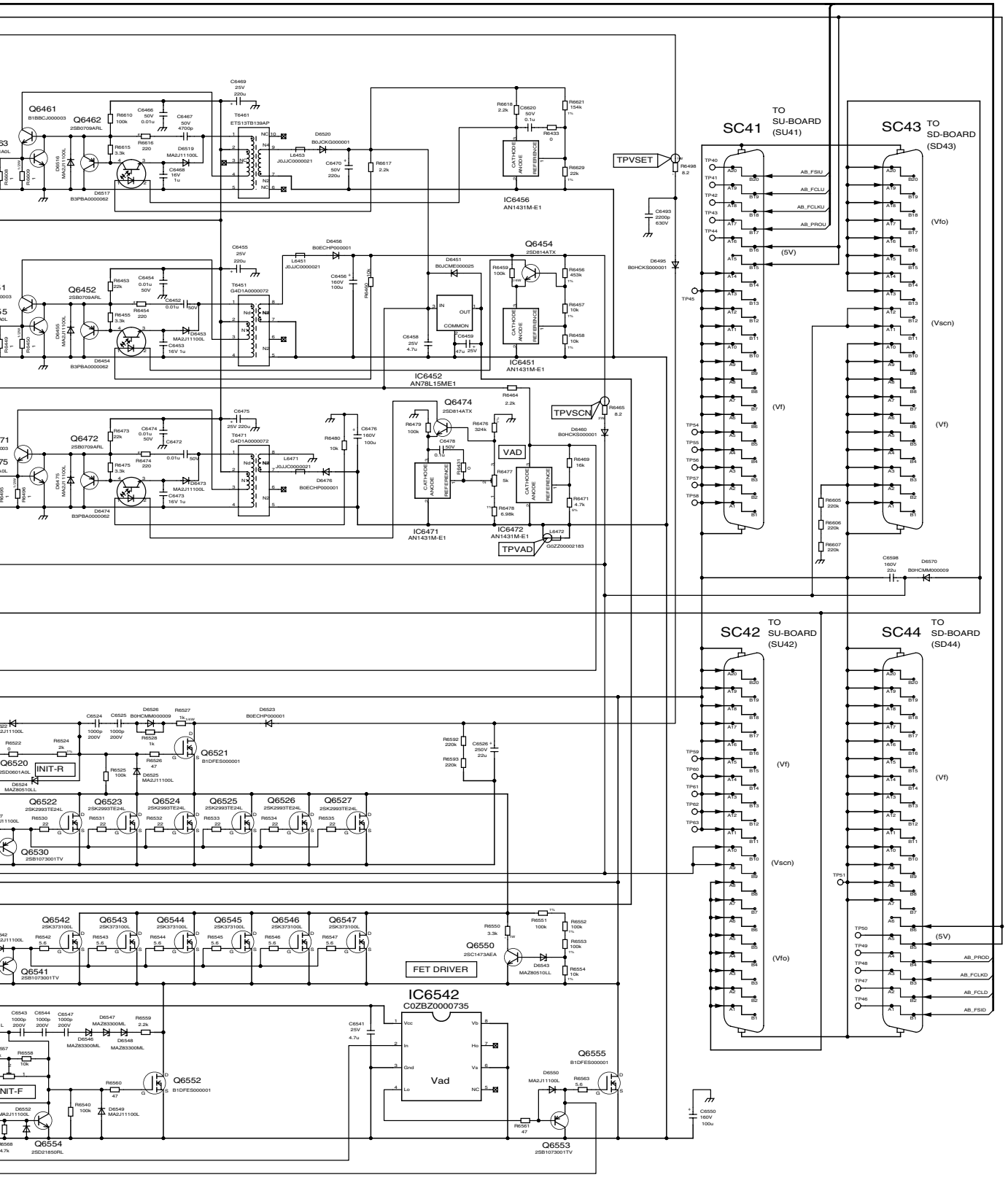


TH-42PA20B/E
SC-Board(1of2)Schematic Diagram

14.41. SC-Board (2 of 2) Schematic Diagram

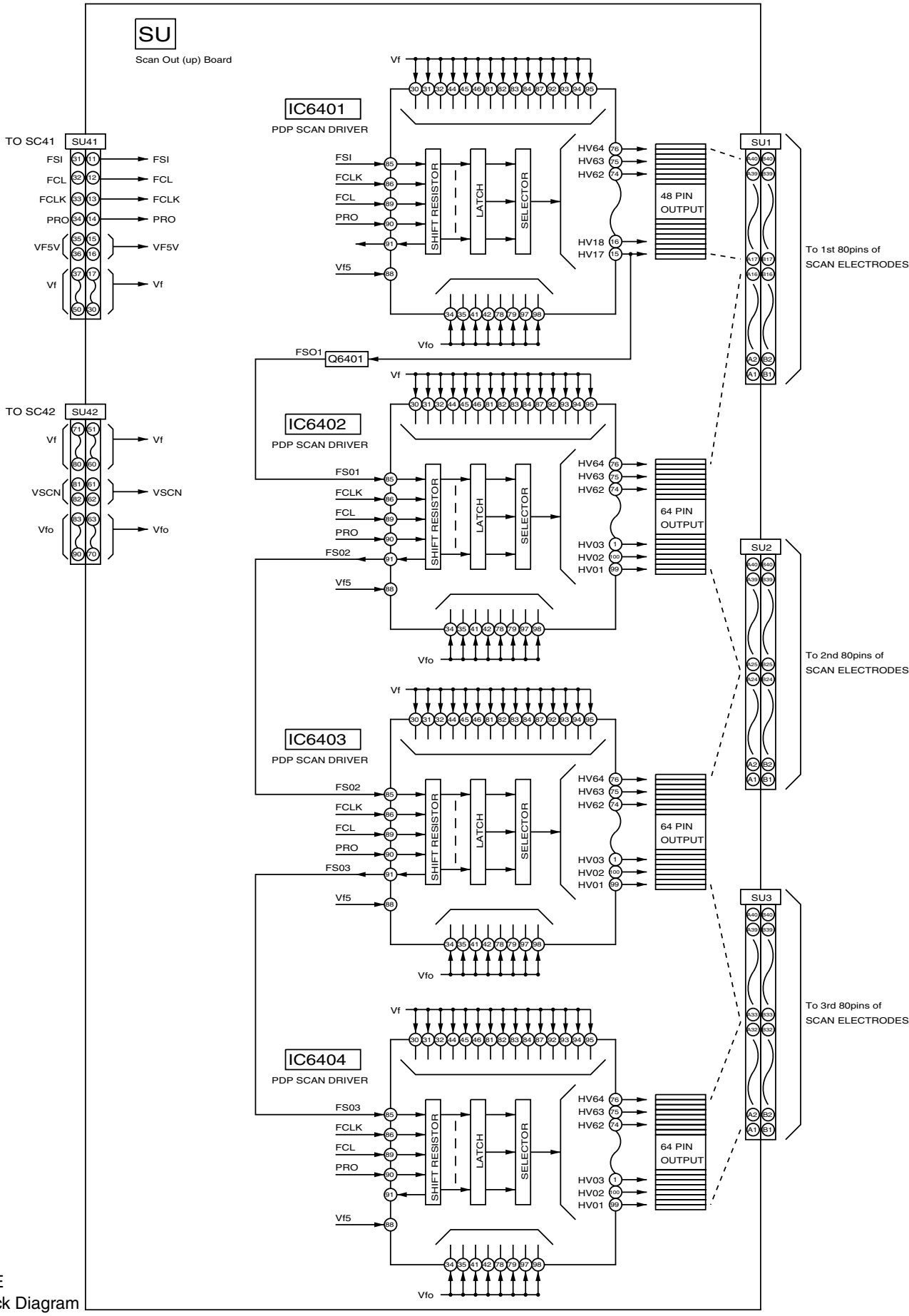


TH-42PA20B/E
SC-Board(2of2)Schematic Diagram



TH-42PA20B/E
SC-Board(2of2)Schematic Diagram

14.42. SU-Board Block Diagram



TH-42PA20B/E
SU-Board Block Diagram

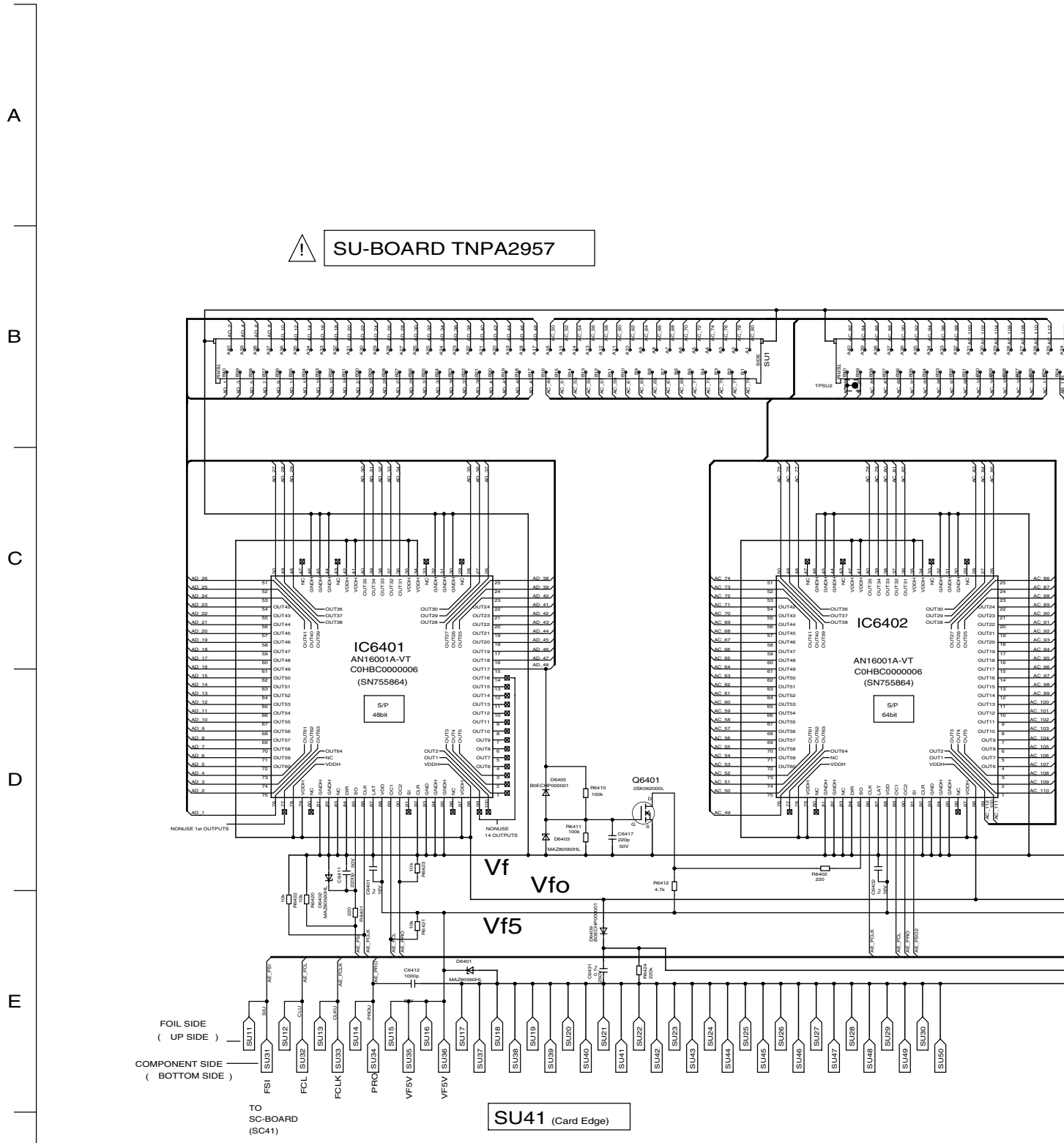
To 1st 80pins of
SCAN ELECTRODES

To 2nd 80pins of
SCAN ELECTRODES

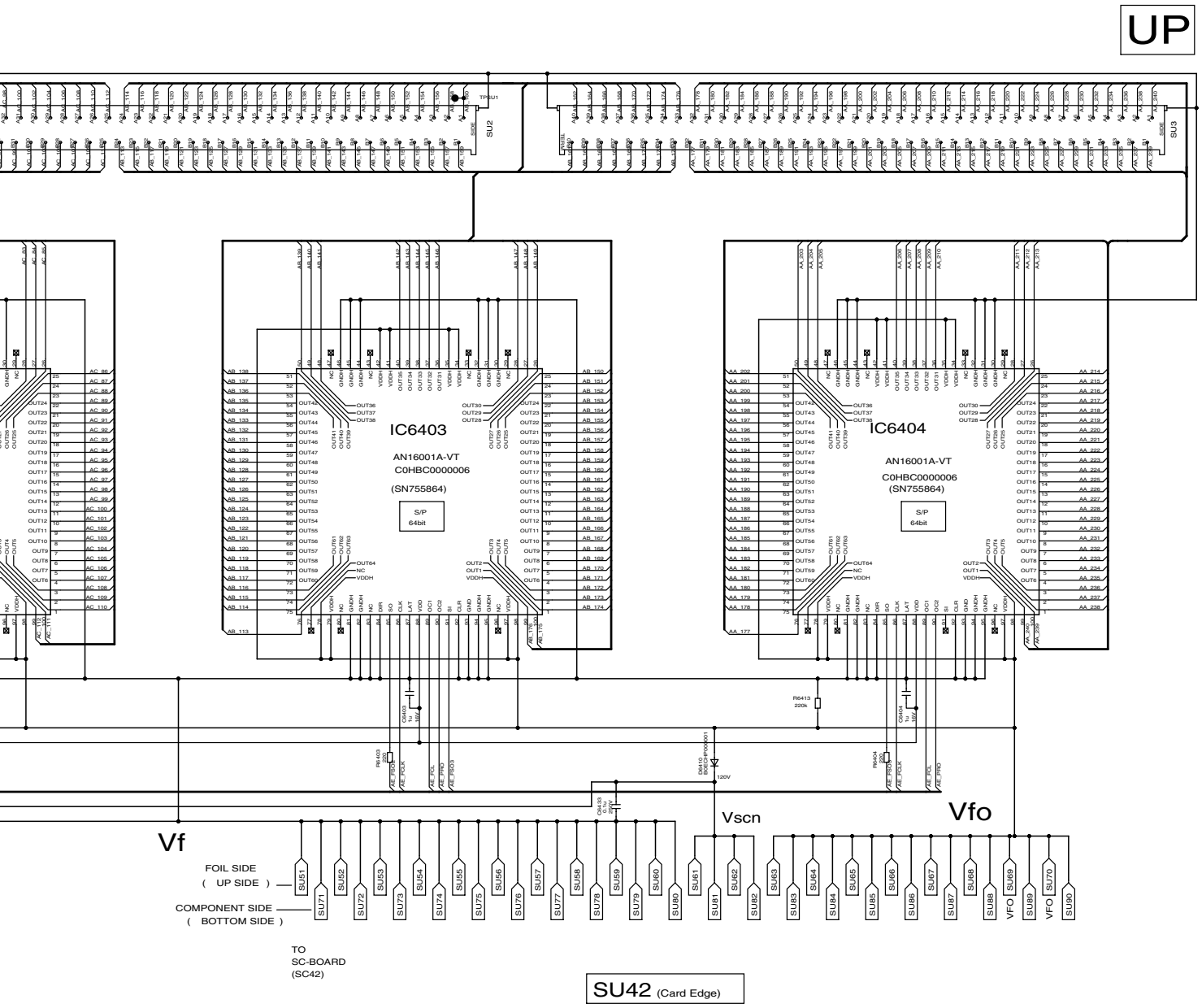
To 3rd 80pins of
SCAN ELECTRODES

TH-42PA20B/E
SU-Board Block Diagram

14.43. SU-Board Schematic Diagram

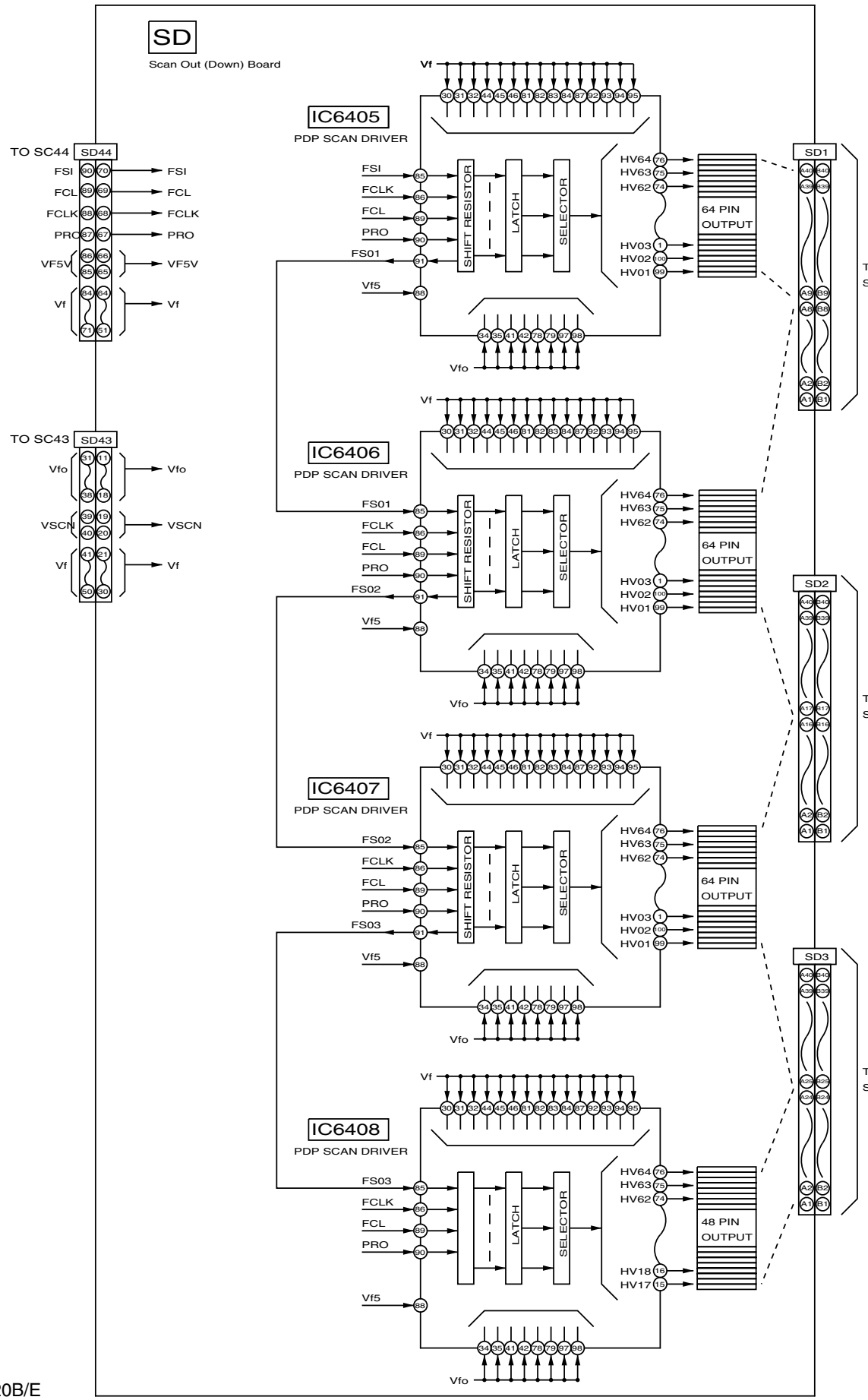


TH-42PA20B/E
SU-Board Schematic Diagram



TH-42PA20B/E
SU-Board Schematic Diagram

14.44. SD-Board Block Diagram



TH-42PA20B/E
SD-Board Block Diagram

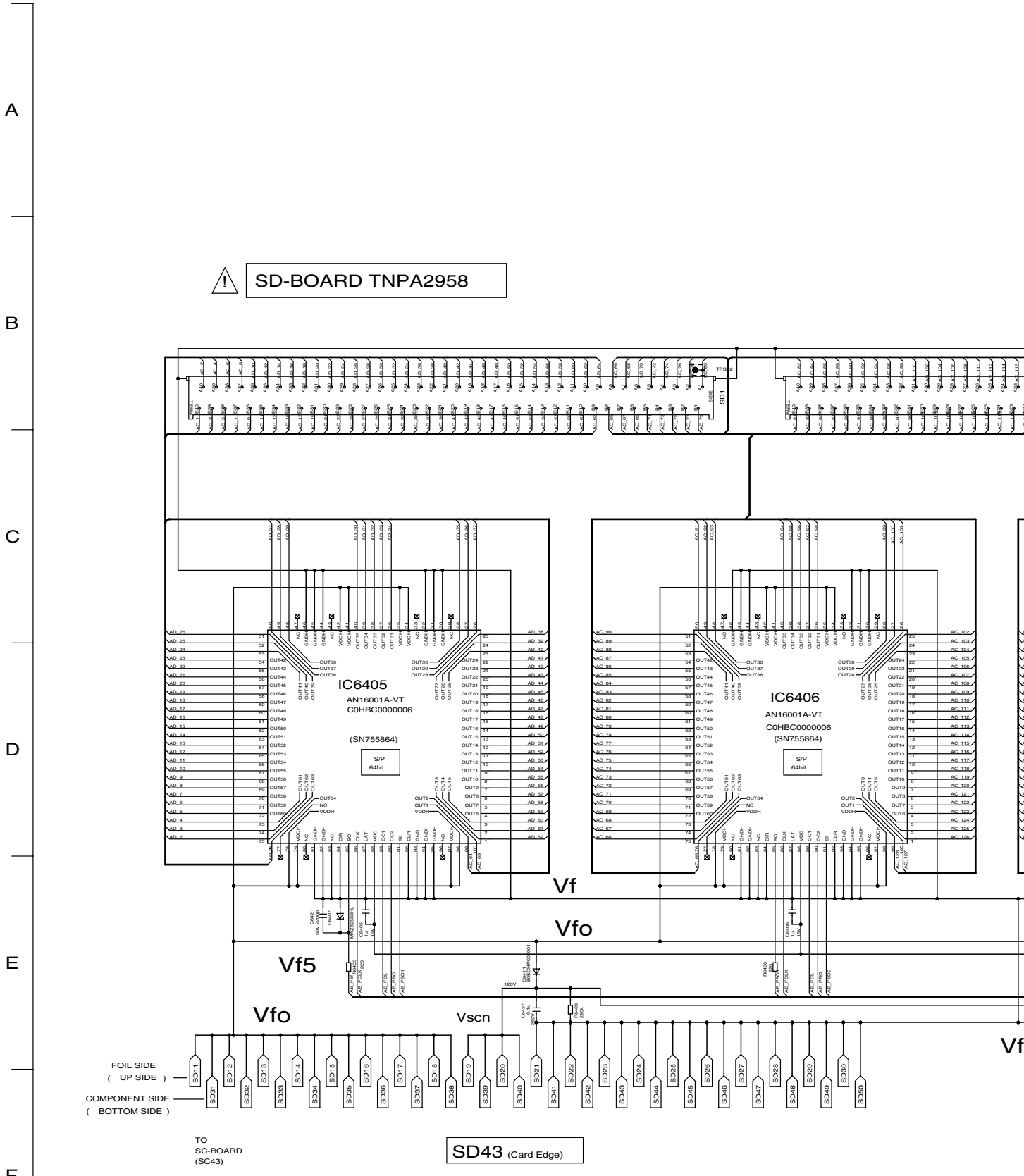
To 1st 80pins of
SCAN ELECTRODES

To 2nd 80pins of
SCAN ELECTRODES

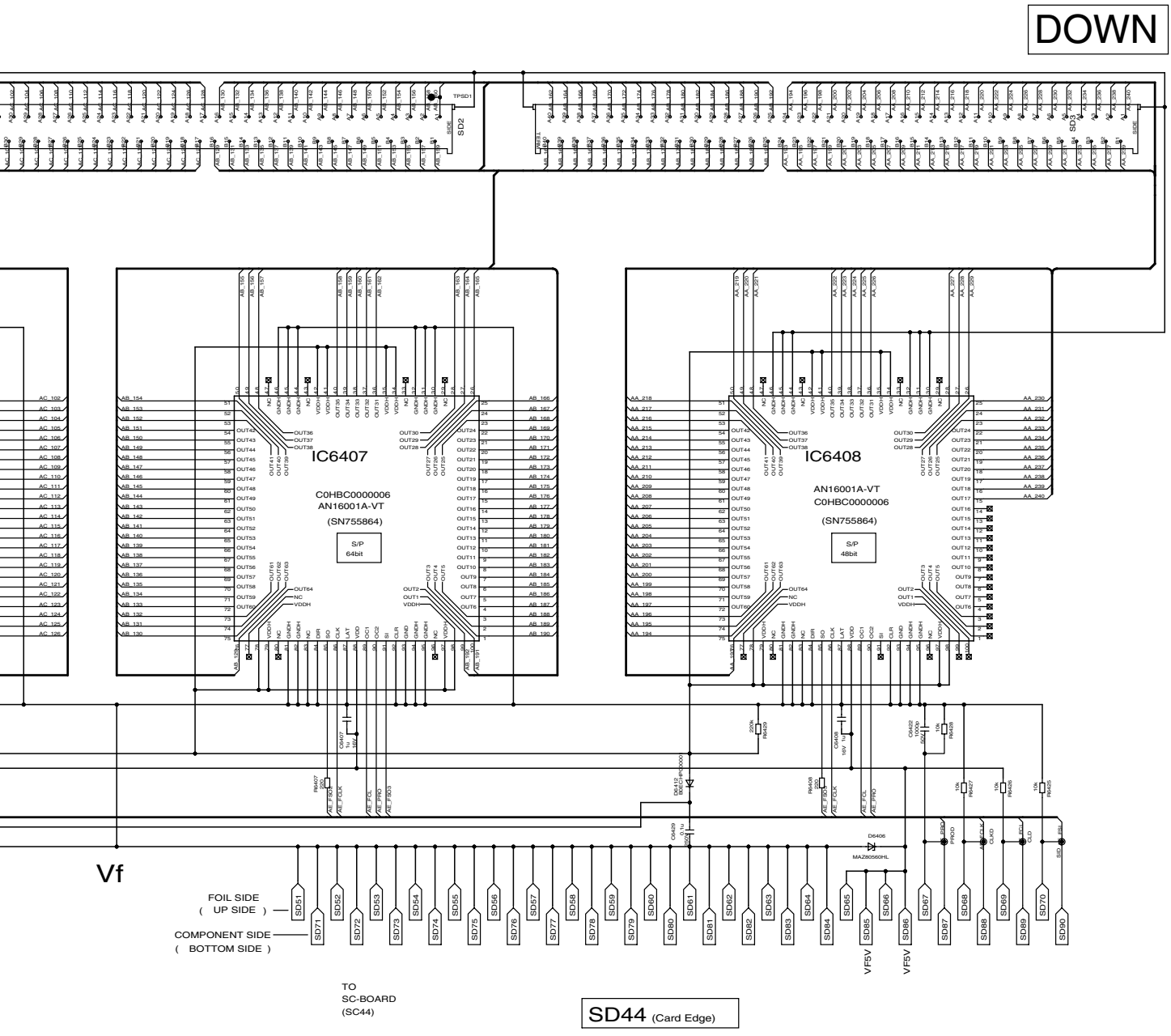
To 3rd 80pins of
SCAN ELECTRODES

TH-42PA20B/E
SD-Board Block Diagram

14.45. SD-Board Schematic Diagram

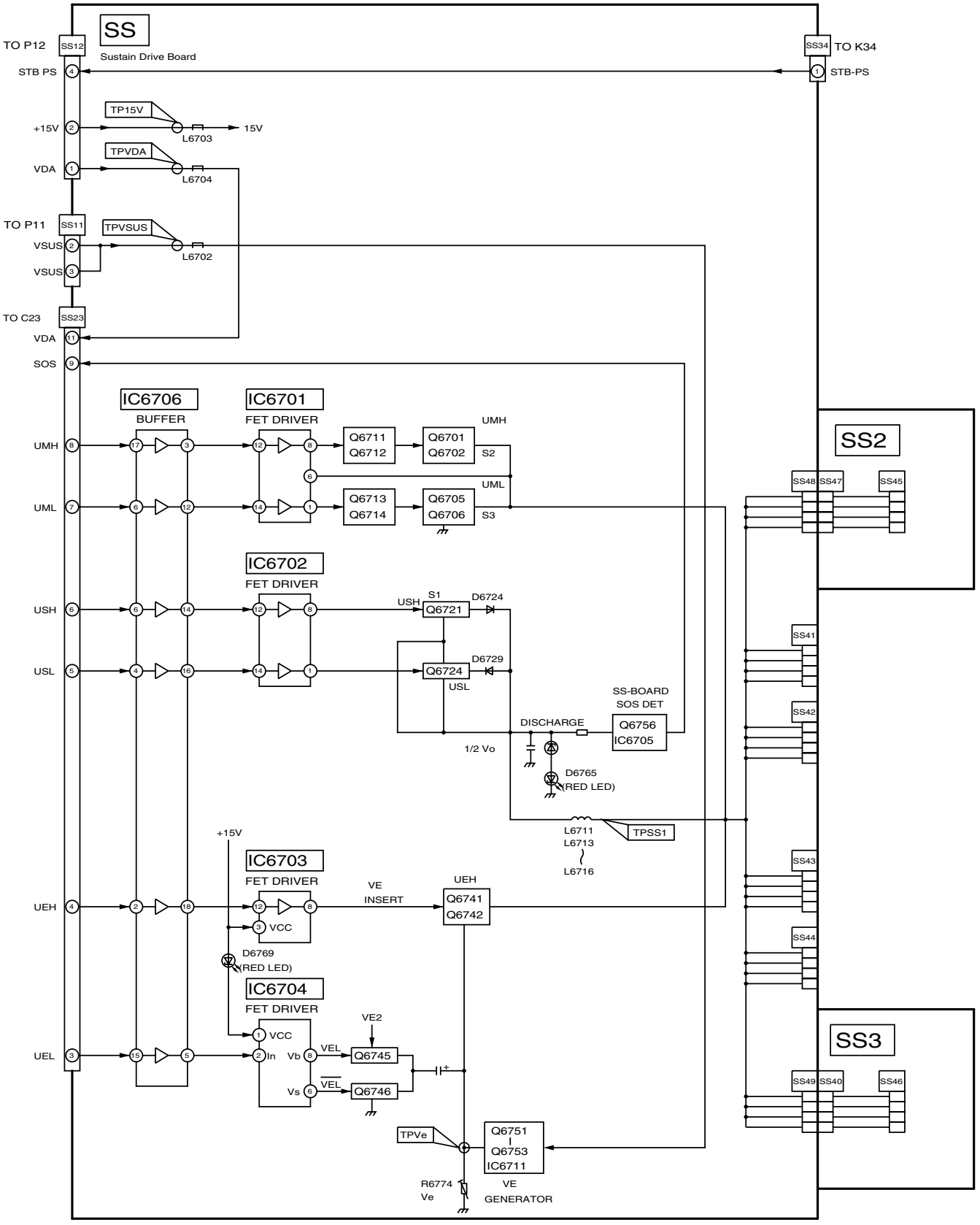


TH-42PA20B/E
SD-Board Schematic Diagram



TH-42PA20B/E
SD-Board Schematic Diagram

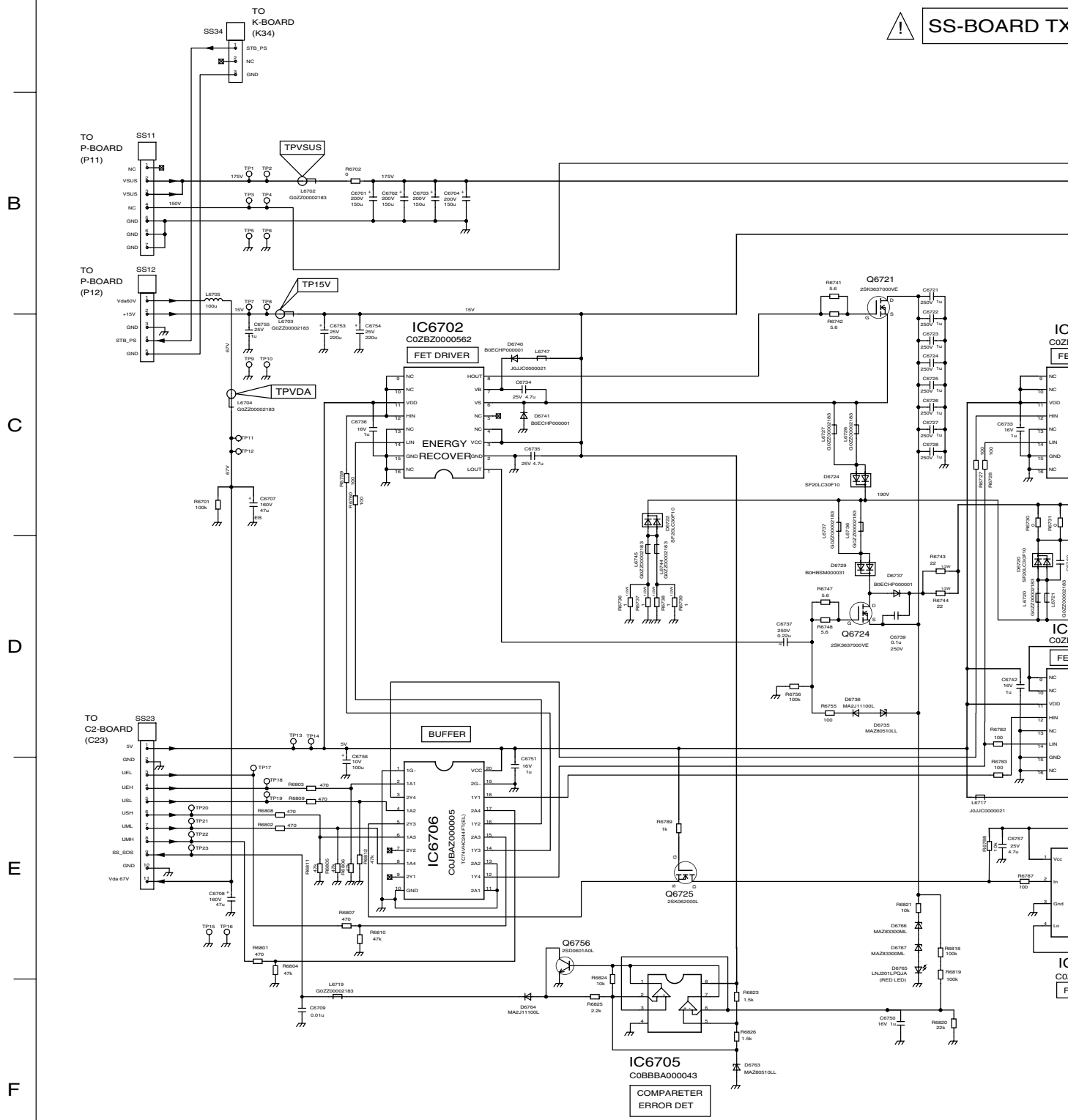
14.46. SS, SS2 and SS3-Board Block Diagram



TH-42PA20B/E
SS,SS2 and SS3-Board Block Diagram

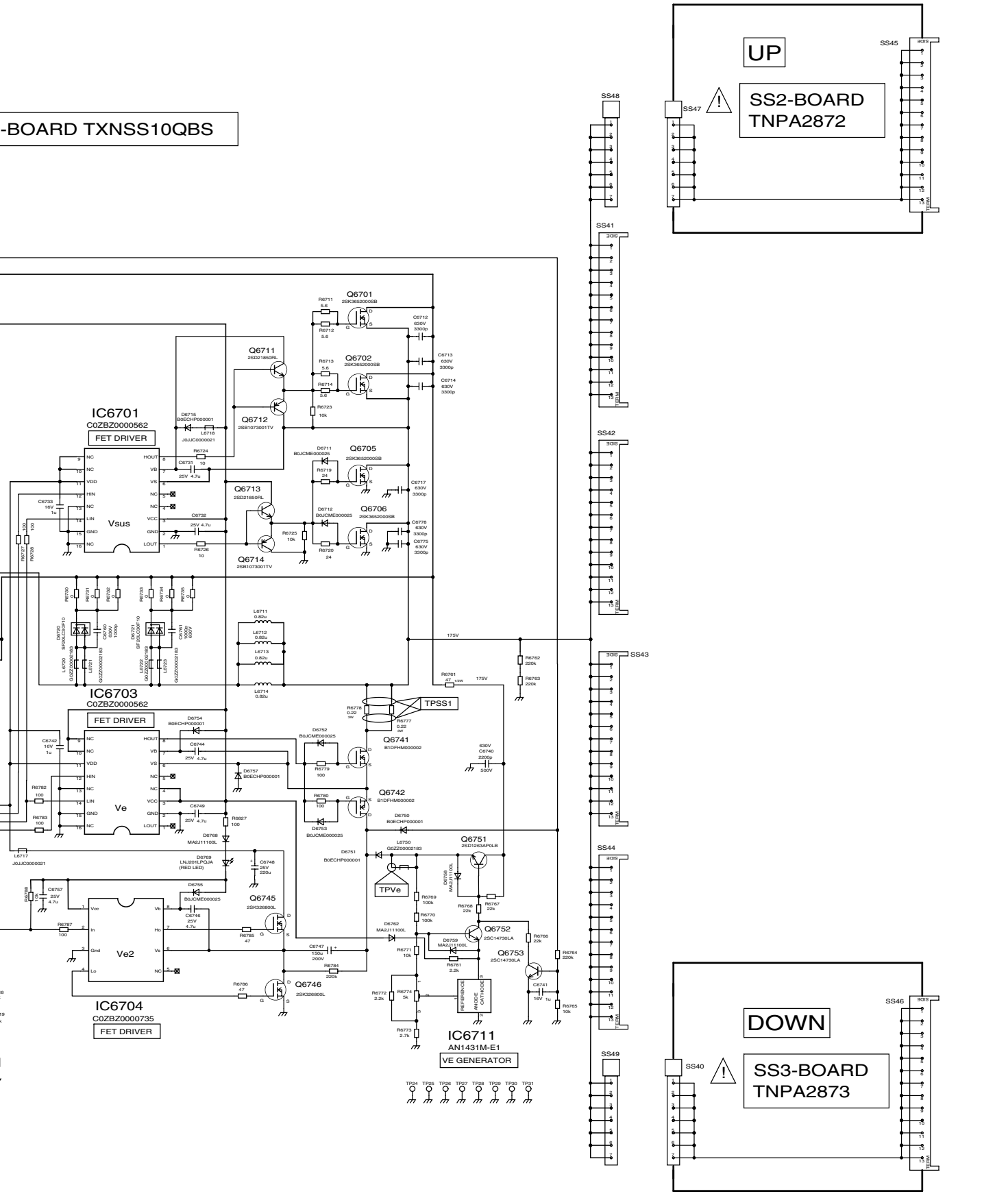
TH-42PA20B/E
SS,SS2 and SS3-Board Block Diagram

14.47. SS, SS2 and SS3-Board Schematic Diagram



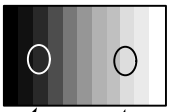
TH-42PA20B/E
SS,SS2 and SS3-Board Schematic Diagram

-BOARD TXNSS10QBS

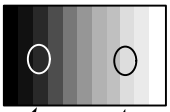


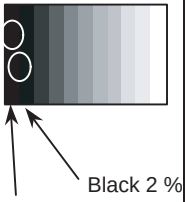
TH-42PA20B/E SS,SS2 and SS3-Board Schematic Diagram

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	RF Sub Bright Pattern  		Picture: Normal Colour balance: **Cool** Aspect: 16:9	PANEL W/B R cut off G cut off B cut off Chroma Control: Gun off RGB Sub Adjust: G Sub Bright 1 Chroma Control: Gun off RGB Sub Adjust: B Sub Bright 1 Chroma Control: Gun off RGB Sub Adjust: R Sub Bright 1	** Adjust at the dark room. 1) Set R,G and B cut off to " **80** ". 2) Set Gun off to "**5**". (Only green pixels can emit.) 3) Adjust G Sub bright 1 to start some of green pixels emission at black 2% area and no emission at black 0% area. 4) Set Gun off to "**3**". (Only blue pixels can emit.) 5) Adjust B Sub bright 1 to start some of blue pixels emission at black 2% area and no emission at black 0% area. 6) Set Gun off to "**6**". (Only red pixels can emit.) 7) Adjust R Sub bright 1 to start some of red pixels emission at black 2% area and no emission at black 0% area.
2	HD Sub Bright Pattern  		Picture: Normal Colour balance: **Cool** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change input to HD signal. 2) Repeat procedure 1) to 7) of Component input signal.

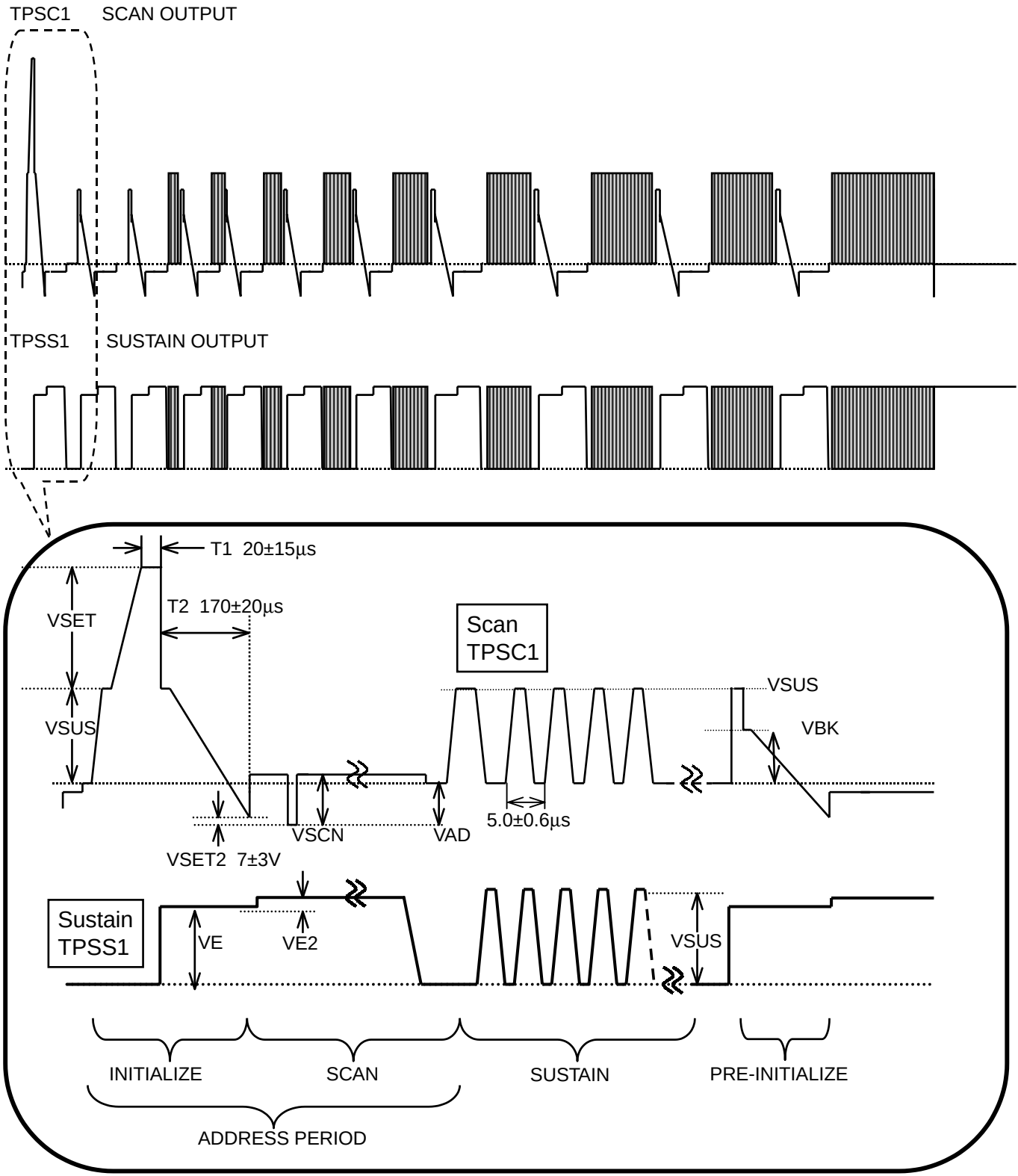
	INPUT	Equipment	Setting	Alignment menu	Procedure
1	PAL White Balance Pattern  	Color Analyzer	Picture: Normal Colour balance: **Cool** Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m_2 as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m_2 exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-01. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m_2. 6)Find 75% of white area by color sensor. 7) Set G Drive to " E8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-01. 9) Repeat procedure 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again. Fig. -01
2			Picture: Normal Colour balance: **Normal** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal Colour balance: **Warm** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal Colour balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"

Color Temp.	x	y
Cool(Hi)	0.276	0.276
Normal(Mid)	0.288	0.296
Warm(Low)	0.313	0.329

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	PC White Balance Pattern  	Color Analyzer	Picture: Normal Colour balance: **Cool** Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m2 as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m2 exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-02. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m2. 6)Find 75% of white area by color sensor. 7) Set G Drive to " E8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-02. 9) Repeat item 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again. Color Temp. / x / y Cool(Hi) / 0.276 / 0.276 Normal(Mid) / 0.288 / 0.296 Warm(Low) / 0.313 / 0.329 Fig. -02
2			Picture: Normal Colour balance: **Normal** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal Colour balance: **Warm** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal Colour balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"

1	PAL Sub Bright Pattern  		Picture: Normal Aspect: 16:9	PANEL W/B All cut off	** Adjust at the dark room. Finish white balance adjustment 1) Set white balance to **Cool**. 2) Adjust All cut off to start some pixels emission at black 2% area and no emission at black 0% area. 3) Write down all cut off data. 4) Set white balance to **Nornal**. 5) Adjust All cut off to set same data of Cool mode. 6) Set white balance to **warm**. 7) Adjust All cut off to set same data of Cool mode.
	PC Sub Bright Pattern				8) Change to PC signal. 9) Copy PAL All cut off data to PC mode.

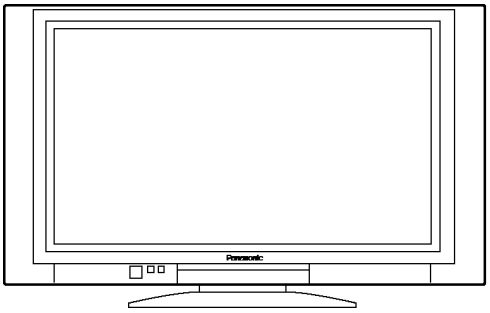
Instrument name	Connection	Remarks
1. HD Signal Generator (Color Bar Pattern) 2. Power meter	COMPONENT INPUT	
Setting		
Perform aging for more than 30 minutes. Power-Supply voltage: 100V 50/60Hz (Distortion indicate 1%) Volume is MINIMUM; Screen size is MAX/MUM.		
Procedure		
1. Connect power meter to AC power. 2. Apply a color bar pattern. 3. Select APL MULT from Panel APL/ABL of IIC mode. 4. Adjust APL MULT so that power consumption may Indicate following value. TH-42PA20E/B 307 ± 10W		Initialization : 1C Power is in inverse Proportion to data. (Reduce data when increase power.)


TPSC1
SCAN OUTPUT
TPSS1
SUSTAIN OUTPUT
T1 20±15µs
T2 170±20µs
VSET
VSUS
Scan
TPSC1
VSUS
VBK
VSCN
VAD
5.0±0.6µs
VSET2 7±3V
Sustain
TPSS1
VE
VE2
VSUS
INITIALIZE
SCAN
SUSTAIN
PRE-INITIALIZE
ADDRESS PERIOD

0ORDER NO. ITD0306014C2

Service Manual

Progressive Plasma Television



TH-42PA20E
TH-42PA20B

GP6DE Chassis

Specifications

Power Source		220 V - 240 V 50 Hz / 60 Hz A.C.
Power Consumption		
	Normal use	313 W
	Standby	1.8 W
	Power-OFF	1.0 W
Plasma Display panel		
	Drive method	AC type
	Aspect Ratio	16:9
	Contrast Ratio	4000:1
	Screen size	42-inch
	(No.of pixels)	920 mm (W) × 518 mm (H) × 1056 mm (diagonal)
		408, 960 (852 (W) × 480 (H)) [2, 556 × 480 dots]
Sound		
	Speaker	L:Woofer (40 mm) × 4 + Tweeter (35 mm) × 1
		R:Woofer (40 mm) × 4 + Tweeter (35 mm) × 1
	Audio Output	16 W (8 W +8 W) (10 %THD)
	Headphone	M3 (3.5 mm) Jack × 1
Applicable signals		
	Colour System	NTSC, PAL, PAL60, SECAM, Modified NTSC
	Scanning format	525 (480) / 60i , 60p, 625 (575) / 50i , 50p
	PC signals	VGA display
		VGA
		SVGA, XGA, SXGA, UXGA ..... (compressed)
		Horizontal scanning frequency 15 - 110 kHz
		Vertical scanning frequency 48 - 120 Hz
Receiving Systems/ Band name		
		PAL B, G, H, I, SECAM B, G SECAM L / L'

VHF E2 - E12	VHF H1 - H2 (ITALY)
VHF A - H (ITALY)	UHF E21 - E69
CATV (S01 - S05)	CATV S1 - S10 (M1 -M10)
CATV S11 - S20 (U1 -U10)	CATV S21 - S41 (Hyperband)

Panasonic®

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	PAL D, K, SECAM D, K	
	VHF R1- R2	VHF R3 - R5
	VHF R6 - R12	UHF E21 - E69
	PAL 525/60	
	Playback of NTSC tape from some PAL video recorders (VCR)	
	M.NTSC	
	Playback from M.NTSC Videorecorders (VCR)	
	NTSC (AV INPUT ONLY)	
	Playback from NTSC Videorecorders (VCR)	
OUTPUT		
AUDIO OUT	AUDIO L-R (RCA Pin Type × 2)	0.5 Vrms
INPUT		
AV3-Front	VIDEO (RCA Pin Type × 2)	1.0 Vp-p (75 Ω)
	S-VIDEO (MINI DIN 4-pin)	Y:1.0 Vp-p (75 Ω) C:0.286 Vp-p (75 Ω)
	AUDIO L-R (RCA Pin Type × 2)	0.5 Vrms
AV4C-Rear	Y	1.0 Vp-p (including synchronization)
	P_B/P_R	± 0.35 Vp-p
PC	(HIGH-DENSITY D-SUB 15PIN)	R, G, B/0.7 Vp-p (75-ohm)
		HD, VD/1.0 -5.0 Vp-p (high impedance)
	AUDIO L-R (RCA Pin Type)	0.5 Vrms (high impedance)
INPUT/OUTPUT		
AV1-Rear	21 Pin socket (Audio/Video in, TV out, RGB in)	
AV2-Rear	21 Pin socket (Audio/Video in, Audio/Video out, S-Video in, Q-Link)	
AV4-Rear	21 Pin socket (Audio/Video in, Audio/Video out, S-Video in, RGB in, Q-Link)	
ANT-Rear	UHF / VHF	
Operating Conditions	Temperature :0° - 40℃	
	Humidity :20 % - 80 %RH (non-condensing)	
Accessories Supplied		
Remote Control Transmitter	N2QAJB000081	
Batteries	2 × R6 Size	
Fixing band	(TMME203 or TMME 187) × 1	
Ferrite core	Large size × 3, Small size × 5	
Dimensions (W × H × D)	1170 mm × 658 mm × 99 mm	
Mass (Weight)	35.0 kg	

Notes:

(1) Design and specifications are subject to change without notice.Mass and dimensions shown are approximate.

(2) This equipment complies with the EMC standards listed below.
EN55013, EN61000-3-2, EN61000-3-3, EN55020.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1 Applicable signals

Applicable input signals for PC Input (D-sub 15P) (∗ Mark)

	Signal name	Horizontal frequency(kHz)	Vertical frequency(Hz)	PC
1	640 × 400 @70 Hz	31.47	70.00	∗
2	640 × 480 @60 Hz	31.47	59.94	∗
3	Macintosh13" (640 × 480)	35.00	66.67	∗
4	640 × 480 @75 Hz	37.50	75.00	∗
5	852 × 480 @60 Hz	31.50	60.00	∗
6	800 × 600 @60 Hz	37.88	60.32	∗
7	800 × 600 @75 Hz	46.88	75.00	∗
8	800 × 600 @85 Hz	53.67	85.06	∗
9	Macintosh16" (832 × 624)	49.73	74.55	∗
10	1,024 × 768 @60 Hz	48.36	60.00	∗
11	1,024 × 768 @70 Hz	56.48	70.07	∗
12	1,024 × 768 @75 Hz	60.02	75.03	∗
13	1,024 × 768 @85 Hz	68.68	85.00	∗
14	Macintosh21" (1,152 × 870)	68.68	75.06	∗
15	1,280 × 1,024 @60 Hz	63.98	60.02	∗
16	1,280 × 1,024 @75 Hz	79.98	75.03	∗
17	1,280 × 1,024 @85 Hz	91.15	85.02	∗
18	1,600 × 1,200 @60 Hz	75.00	60.00	∗

Note:
Signals without above specification may not be displayed properly.

2 Safety Precautions

2.1. General Guidelines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

2.2. Touch-Current Check

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a measuring network for touch currents between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use Leakage Current Tester (Simpson 228 or equivalent) to measure the potential across the measuring network.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reserve the AC plug in the AC outlet and repeat each of the above measure.
6. The potential at any point (TOUGH CURRENT) expressed as voltage U_1 and U_2, does not exceed the following values:

   For a. c.: U_1 = 35 V (peak) and U_2 = 0.35 V (peak);

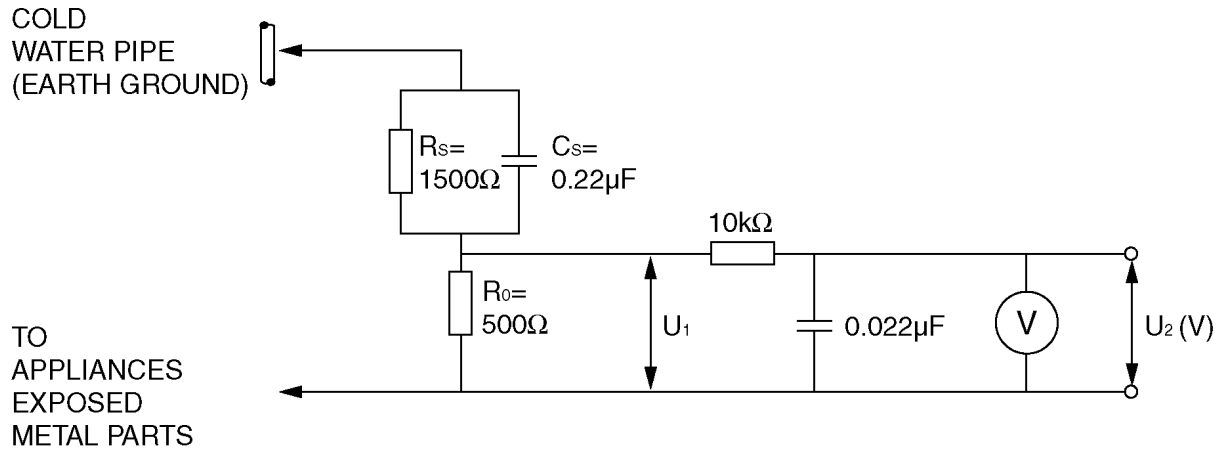
   For d. c.: U_1 = 1.0 V,

   Note:

   The limit value of U_2 = 0.35 V (peak) for a. c. and U_1 = 1.0 V for d. c. correspond to the values 0.7 mA (peak) a. c. and 2.0 mA d. c.

   The limit value U_1 = 35 V (peak) for a. c. correspond to the value 70 mA (peak) a. c. for frequencies greater than 100 kHz.
7. In case a measurement is out of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

Measuring network for TOUCH CURRENTS



Resistance values in ohms (Ω)

V: Voltmeter or oscilloscope
(r.m.s. or peak reading)

Input resistance: ≥ 1 MΩ
Input capacitance: ≤ 200 pF
Frequency range: 15 Hz to 1 MHz and d.c. respectively

NOTE - Appropriate measures should be taken to obtain the correct value in case of non-sinusoidal waveforms.

Figure 1

3 Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

4 About lead free solder (PbF)

Note: Lead is listed as (Pb) in the periodic table of elements.

In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.

The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).

That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

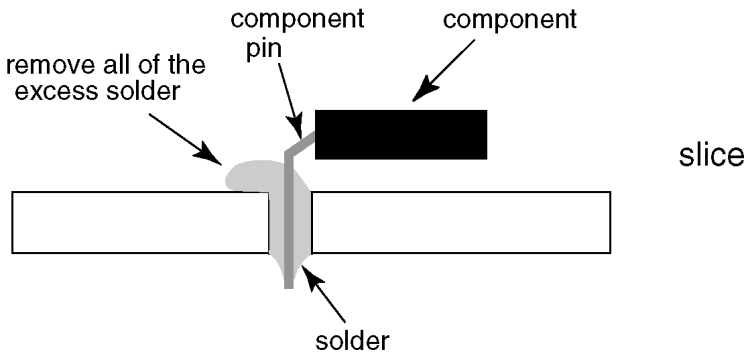
This model uses Pb Free solder in it's manufacture due to environmental conservation issues. For service and repair work, we'd suggest the use of Pb free solder as well, although Pb solder may be used.

PCBs manufactured using lead free solder will have the PbF within a leaf Symbol (PbF) stamped on the back of PCB.

Caution

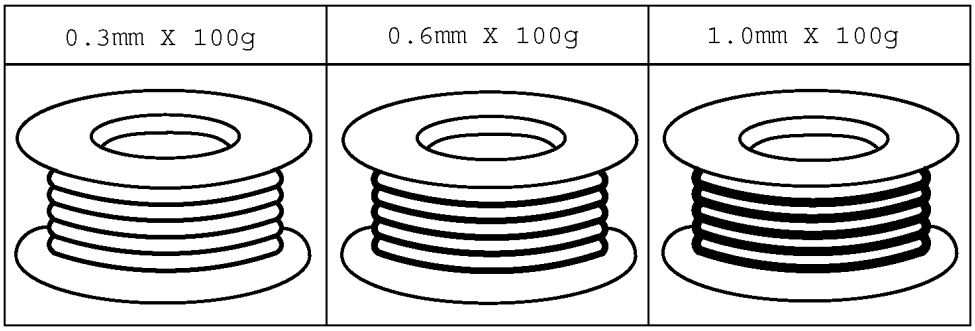
- Pb free solder has a higher melting point than standard solder. Typically the melting point is 50 ~ 70 ℉ (30~40 ℃) higher. Please use a high temperature soldering iron and set it to 700 ± 20 ℉ (370 ± 10 ℃).
- Pb free solder will tend to splash when heated too high (about 1100 ℉ or 600 ℃).

  If you must use Pb solder, please completely remove all of the Pb free solder on the pins or solder area before applying Pb solder. If this is not practical, be sure to heat the Pb free solder until it melts, before applying Pb solder.
- After applying PbF solder to double layered boards, please check the component side for excess solder which may flow onto the opposite side. (see figure below)



Suggested Pb free solder

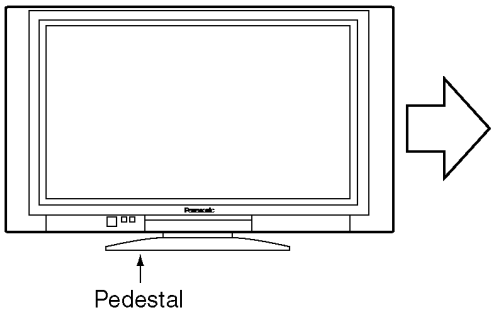
There are several kinds of Pb free solder available for purchase. This product uses Sn+Ag+Cu (tin, silver, copper) solder. However, Sn+Cu (tin, copper), Sn+Zn+Bi (tin, zinc, bismuth) solder can also be used.

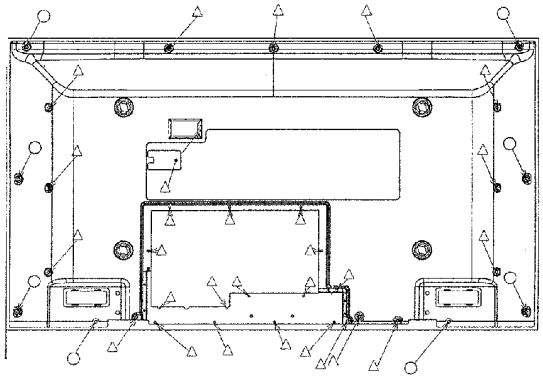


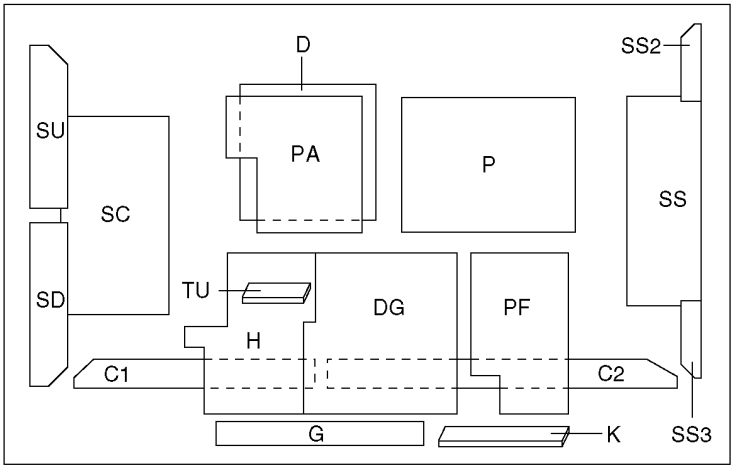
5 Service Hint

Remove the Back Cover

Stand the Unit used for Pedestal







Remove: 8 screws (○) XTB4+15AFZ
28 screws (△) THEL023Z

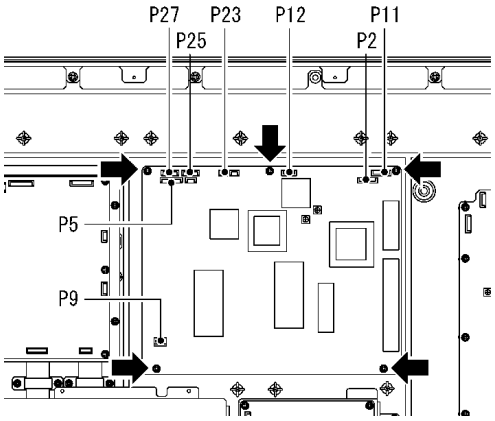
Service Position

Board Name	Function	Board Name	Function
C1	DATA DRIVER (RIGHT)	PF	LINE FILTER
C2	DATA DRIVER (LEFT)	SC	SCAN DRIVE
D	DIGTAL SIGNAL PROCESS	SD	SCAN OUT (DOWN)
DG	DIGTAL CORE, MICOM	SS	SUSTAIN DRIVE
G	FRONT TERMINAL, SWITCH	SS2	SUSTAIN CONNECTION (UP)
H	REAE TERMINAL	SS3	SUSTAIN CONNECTION (DOWN)
K	LED, REMOTE, POWER SWITCH	SU	SCAN OUT (UP)
P	POWER SUPPLY	TU	TUNER
PA	DC/DC, AUDIO		

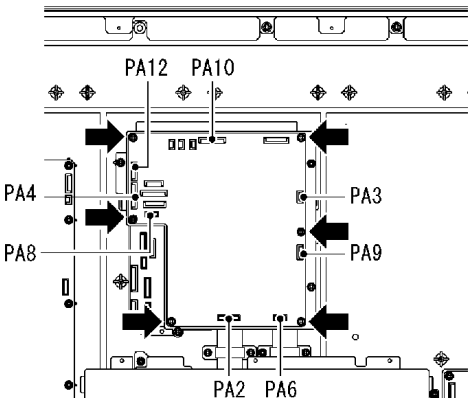
6 Plasma panel replacement method

■ To replace the plasma panel (finished), place the unit on the servicing stand, remove the front frame (finished), and attach the panel, being careful not to scratch the plasma panel surface.

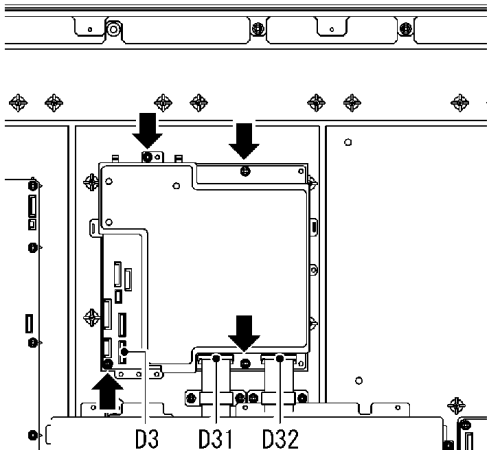
1. Remove the rear cover.
2. Remove the P module.
   a. Remove the couplers (P2, P5, P9, P11, P12, P23, P25, P27) connected to the P module.
   b. Remove the P module fastening screws (×5) and remove the P module.



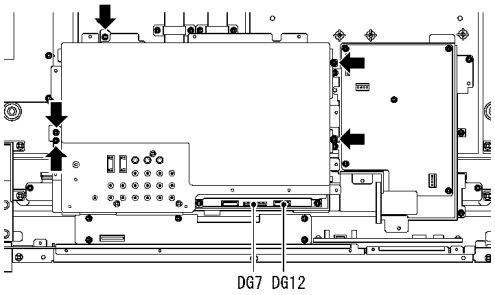
3. Remove the PA module.
   a. Remove the couplers (PA2, PA3, PA4, PA6, PA8, PA9, PA10, PA12) connected to the PA module.
   b. Remove the PA module fastening screws (×6) and remove the PA module.



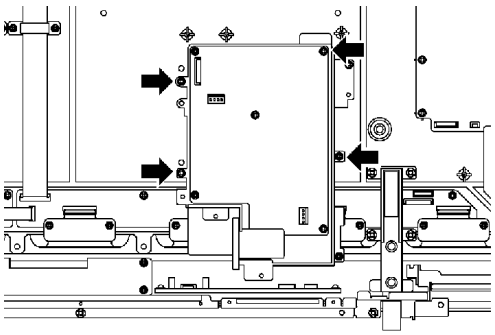
4. Remove the D module.
   a. Remove the coupler (D3) connected to the D module.
   b. Remove the flexible cables (D31, D32) connected to the D module.
   c. Remove the D module fastening screws (×4) and remove the D module.



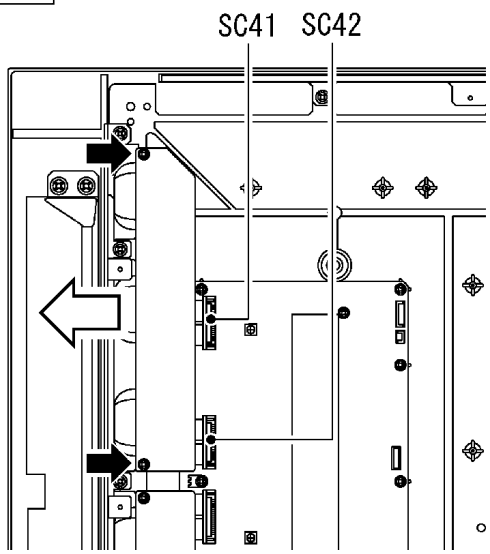
5. Remove the signal processing unit.
   a. Remove the coupler (DG12) connected to the signal processing unit.
   b. Remove the flexible cable (DG7) connected to the signal processing unit.
   c. Remove the signal processing unit fastening screws (×5), and remove the signal processing unit.



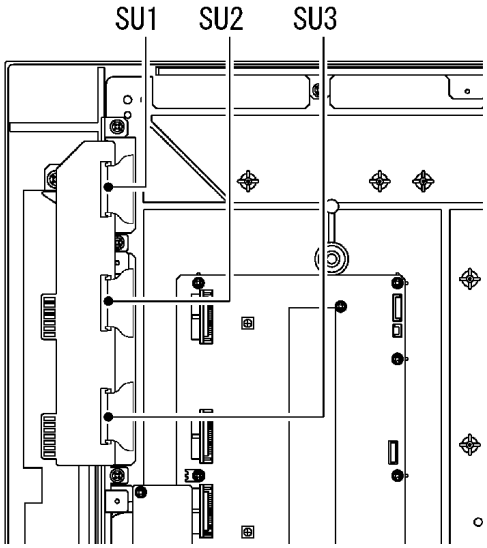
6. Remove the power supply unit.
   a. Remove the PF module fastening screws (×4), and remove the power supply unit.



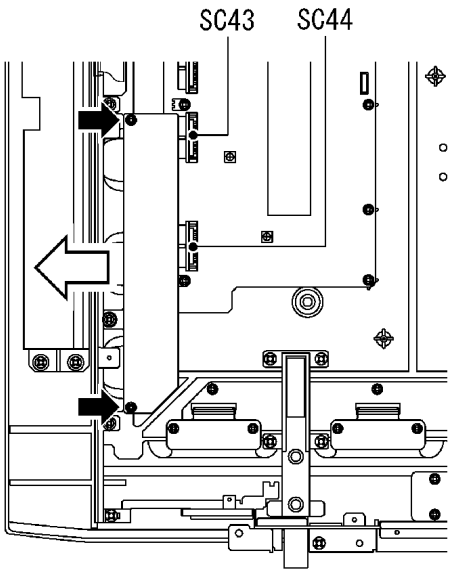
7. Remove the SU module.
   a. Remove the SU module fastening screws (×2).
   b. Move the SU module to the left and disconnect from the couplers (SC41, SC42) on the SC module.



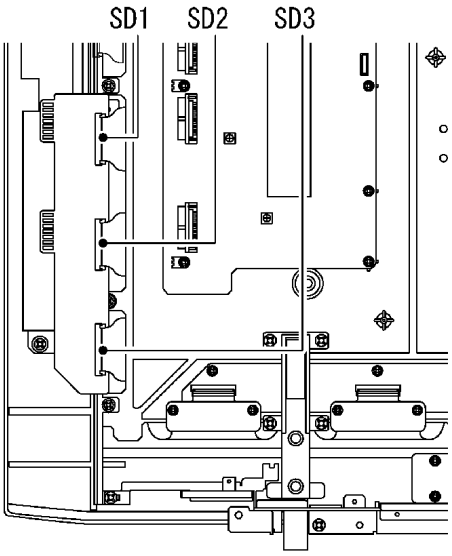
c. Remove the flexible cables (SU1, SU2, SU3) connected to the SU module, and remove the SU module.



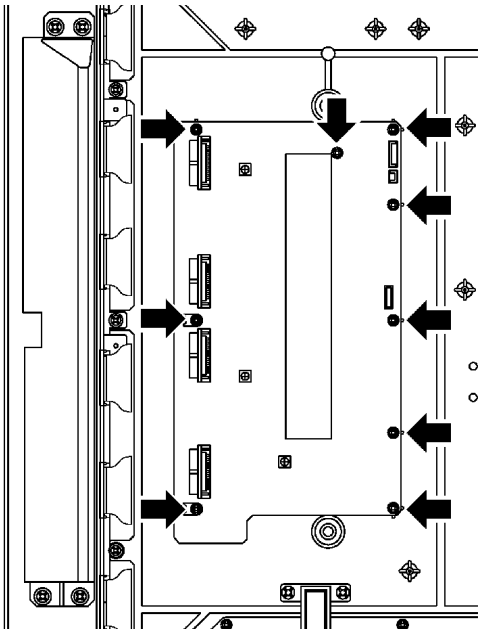
8. Remove the SD module.
   a. Remove the SD module fastening screws (×2).
   b. Move the SD module to the left and disconnect from the couplers (SC43, SC44) on the SC module.



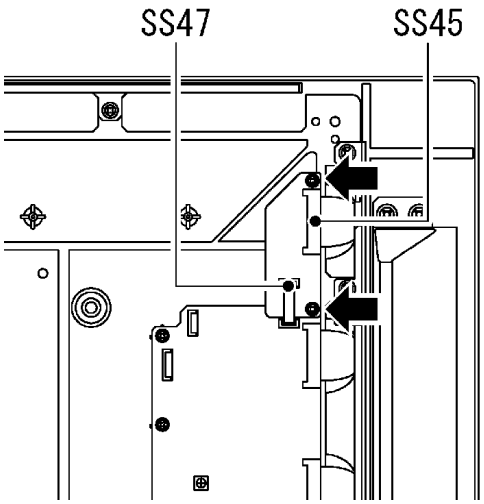
c. Remove the flexible cables (SD1, SD2, SD3) connected to the SD module, and remove the SD module.



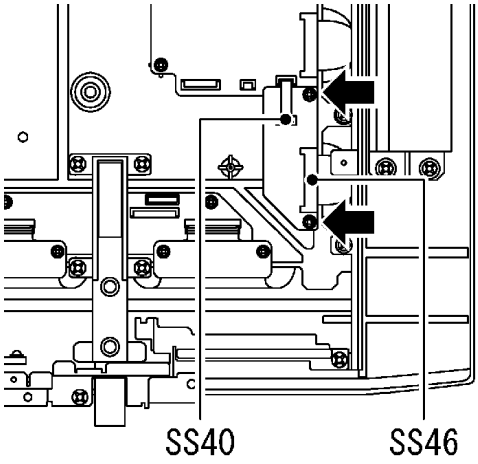
9. Remove the SC module.
   a. Remove the SC module fastening screws (×9) and remove the SC module.



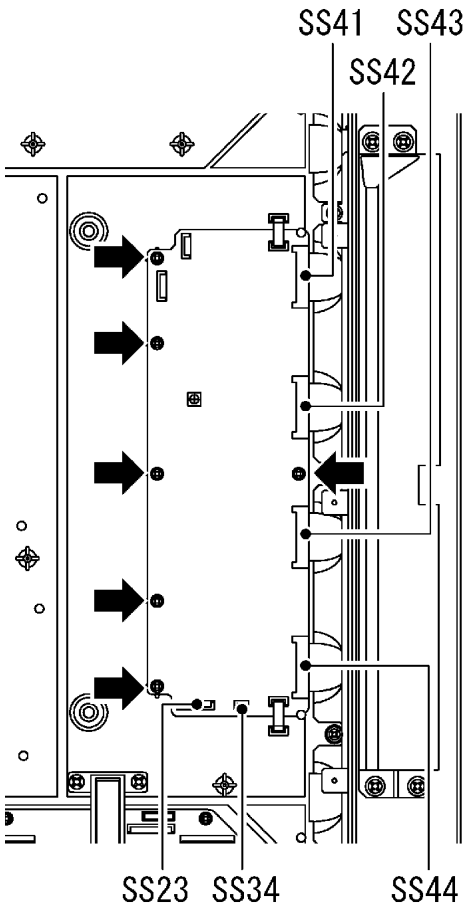
10. Remove the SS2 module.
    a. Remove the coupler (SS47) connected to the SS2 module, and remove the flexible cable (SS47).
    b. Remove the SS2 module fastening screws (×2), and remove the SS2 module.



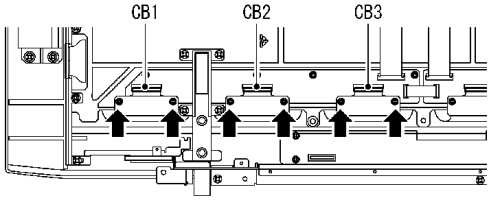
11. Remove the SS3 module.
    a. Remove the coupler (SS40) and flexible cable (SS46) connected to the SS3 module.
    b. Remove the SS3 module fastening screws (×2), and remove the SS3 module.



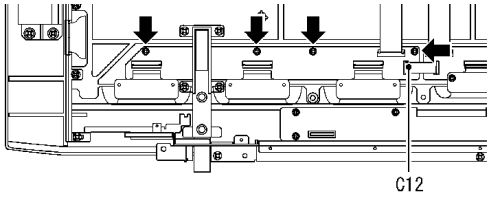
12. Remove the SS module.
    a. Remove the couplers (SS23, SS34) connected to the SS module, and remove the flexible cables (SS40, SS47) connected to the SS3 module and SS2 module.
    b. Remove the flexible cables (SS41, SS42, SS43, SS44) connected to the SS module.
    c. Remove the SS module fastening screws (×6), and remove the SS modules.



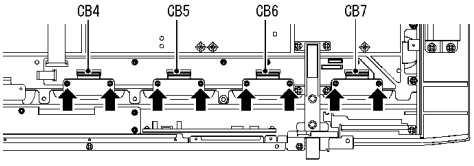
13. Remove the C1 module.
    a. Remove the flexible cable holder fastening screws (×6) connected to the C1 module, and remove flexible cables (CB1, CB2, CB3).



    b. Remove the flexible cable (C12) connected to the C1 module.
    c. Remove the C1 module fastening screws (×4), and remove the C1 module.

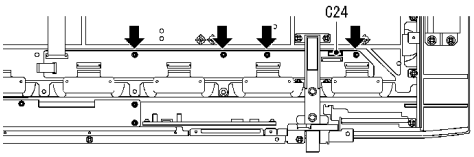


14. Remove the C2 module.
    a. Remove the flexible cable holder fastening screws (×8) connected to the C2 module, and remove the flexible cables (CB4, CB5, CB6, CB7).



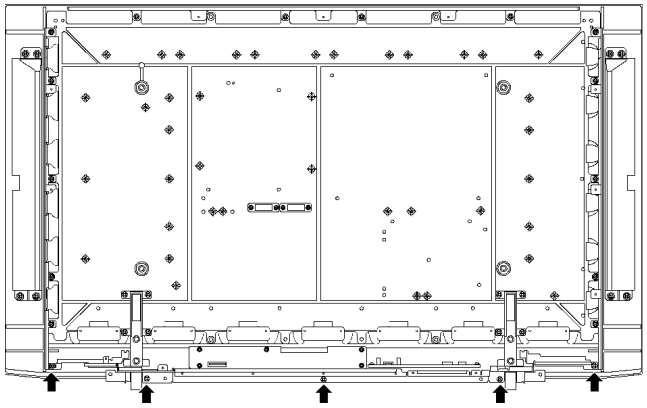
b. Remove coupler (CC24) connected to the C2 module.

c. Remove C2 module fastening screws (×4), and remove the C2 module.



15. Remove the shield plate (bottom).

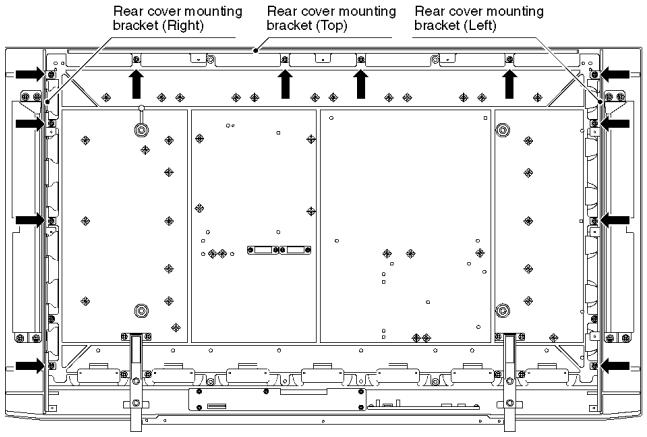
a. Remove the shield plate (bottom) fastening screws (×7), and remove the shield plate (bottom).



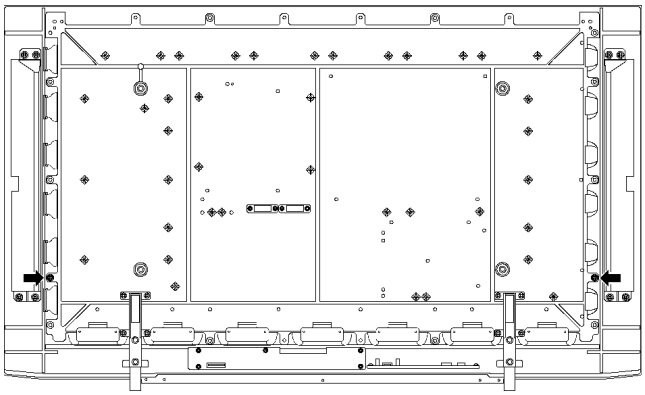
16. Remove the rear cover mounting brackets.

a. Remove the rear cover mounting bracket (top) fastening screws (×4), and remove the rear cover mounting bracket (top).

b. Remove the rear cover mounting bracket (left, right) fastening screws (×4 each), and remove the rear cover mounting brackets (left and right).

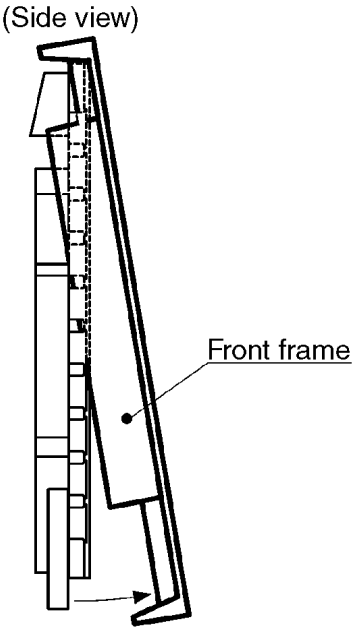


c. Remove the fastening screws (×2) holding the front frame and plasma panel.



17. Remove the front frame.

a. Leaving the front glass and front board unit attached to the front frame, pull the bottom of the front frame forward, lift, and remove.

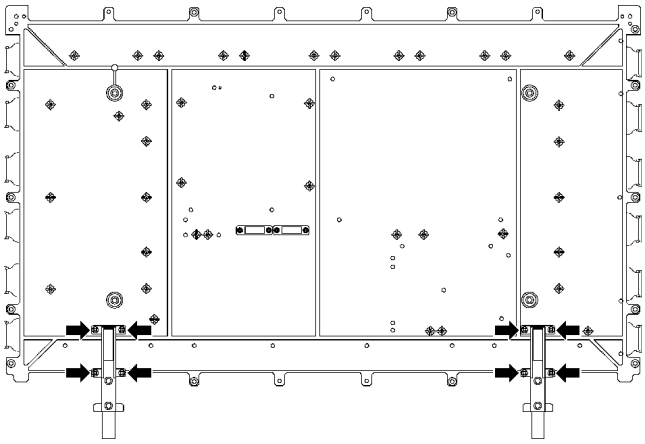


18. Remove stand brackets.

a. Remove the plasma panel section from the servicing stand and lay on a surface such as a table (covered), with the plasma panel surface facing downward.

Spread a soft cloth or similar on the table for protection, so the panel surface is not scratched.

b. Remove the stand bracket (left, right) fastening screws (×4 each) and remove the stand brackets (left, right).

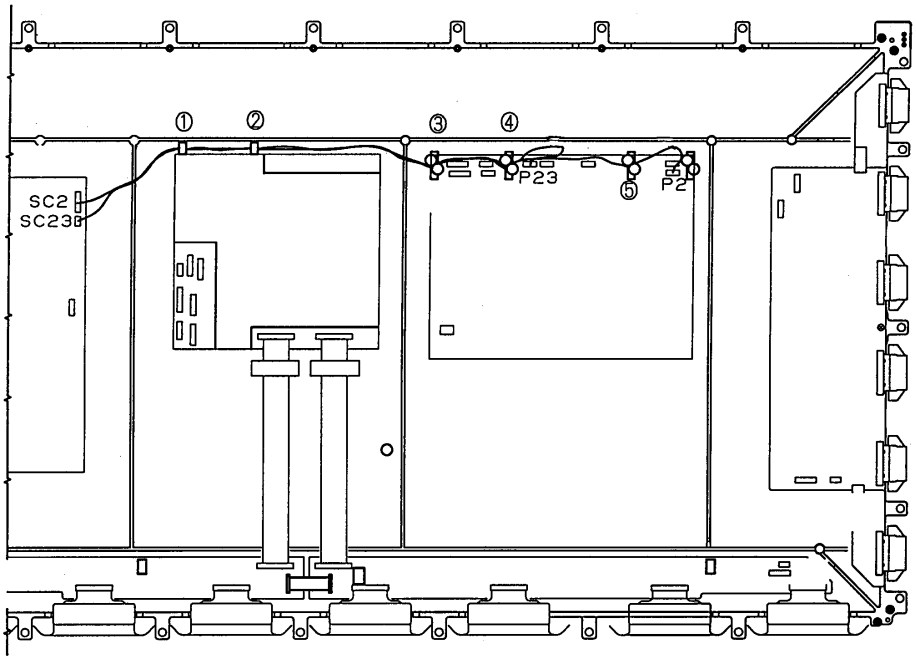


19. Prepare the new panel (finished).
    a. Obtain a new plasma panel (finished) to replace the old plasma panel (finished).
    b. Place the new plasma panel (finished) on a surface such as a table (covered), with the plasma panel surface facing downward.
20. Install the new plasma panel (finished).
    a. Fit the stand brackets (left, right) to the new plasma panel.
    b. Place the plasma panel section on the servicing stand.

*** When fitting the front frame, be careful not to allow any debris, dust or handling residues to remain between the front glass and plasma panel.**

7 Location of Lead Wiring

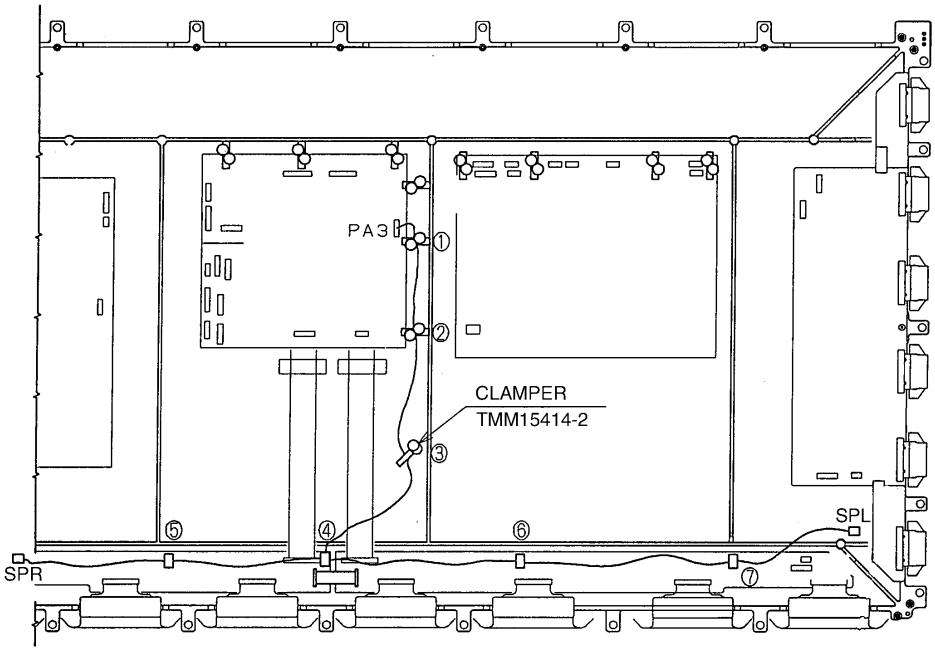
7.1. Lead of Wiring (1)



CON:NO.	CON:NO.	①	②	③	④	⑤	⑥
SC2	P2	○	○	○	○	○	
SC23	P23	○	○	○	○		

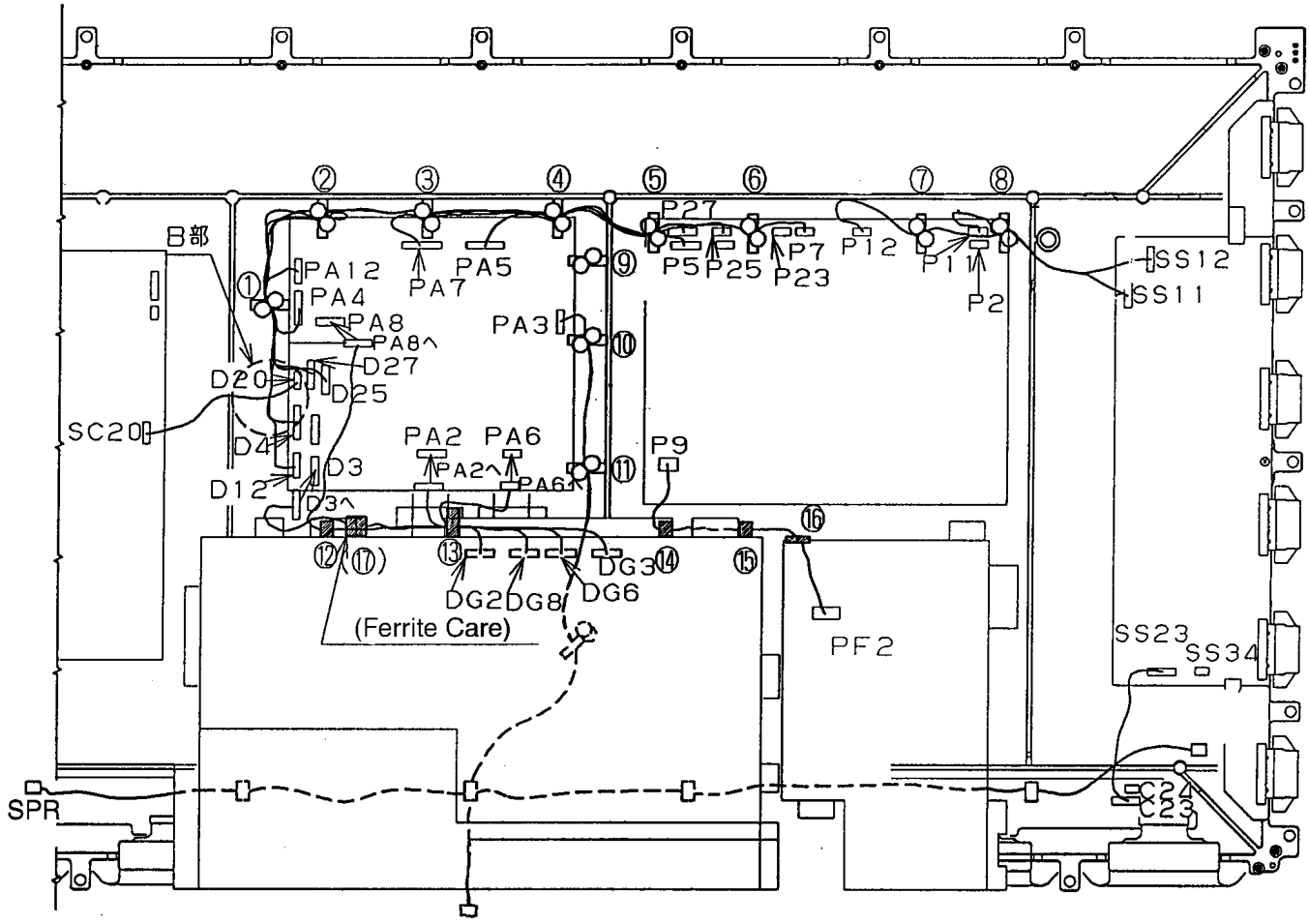
Connector Connection
P2,P23

7.2. Lead of wiring (2)



CON:NO.	CON:NO.	①	②	③	④	⑤	⑥	⑦		
PA3	SPR	○	○	○	○	○				
PA3	SPL	○	○	○	○		○	○		

7.3. Lead of wiring (3)

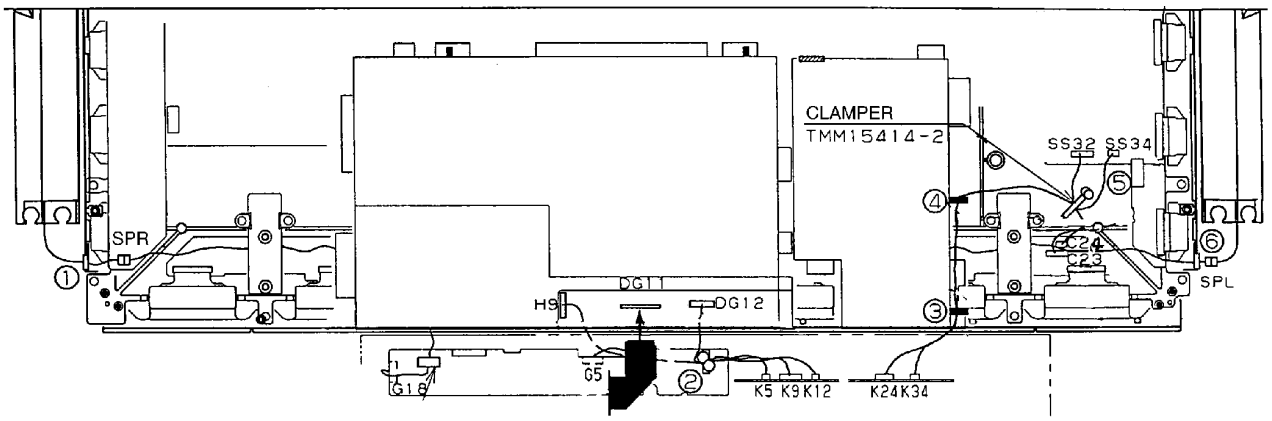


CON:NO. — CON:NO.	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰
SC20 — D20																	
D12 — PA12	○																
D4 — PA4	●	●															
D25 — P25	○	○	○	○	○												
D27 — P27	○	○	○	○	○												
PA5 — P5				○	○												
SS11 — P11								○									
SS12 — P12							○	○									
PA7 — P7			○	○	○	○											
PF2 — P9													○	○		○	○
DG8 — PA8												○	○				
SS23 — C23																	
DG2 — PA2													○				
DG6 — PA6													○				
DG3 — D3													○				○

Connector Connection
P2,P5,P11,P12,P23,P25
P27,P7,D20,D12,D4
D25,D27,D3
PA8,PA2,PA6,PA7,C23

● Wind up second time

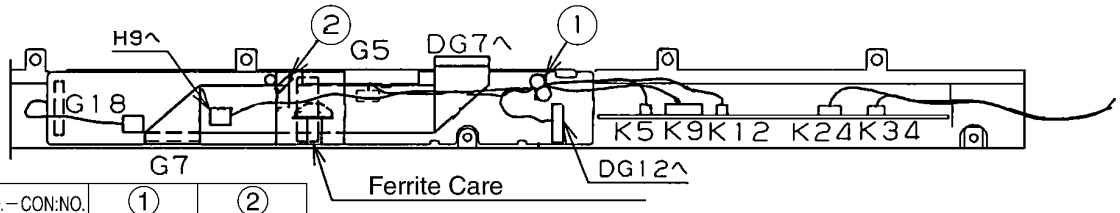
7.4. Lead of wiring (4)



SS34,C24,SP(L,R)
DG12,DG11,G18,H9

CON:NO. —— CON:NO.	①	②	③	④	⑤	⑥	◯	◯
H9 —— [K9]		◯						
K12 —— [DG12]		◯						
K24 —— [C24]			◯	◯	◯			
K34 —— [SS34]			◯	◯	◯			
SS23 —— [C23]					◯			
PA3 —— [SPR]	◯							
PA3 —— [SPL]					◯	◯		
G5 —— K5		◯						

7.5. Lead of wiring (5)

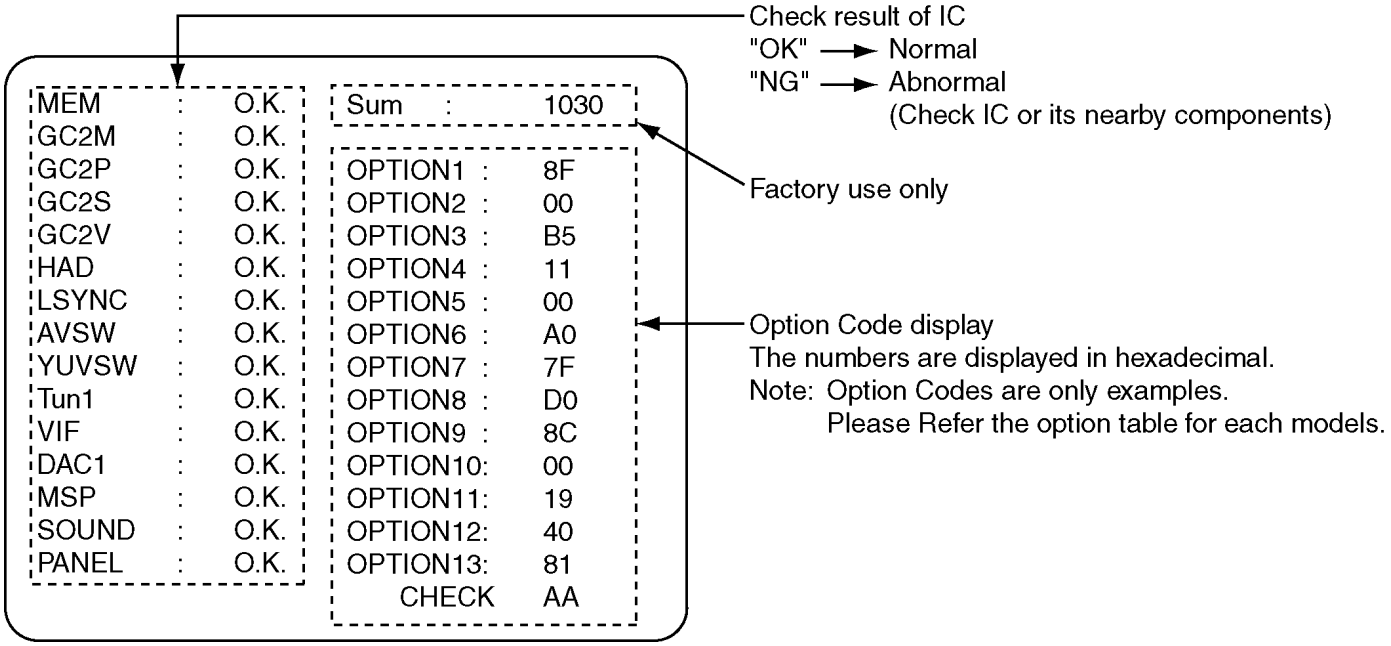


CON:NO.–CON:NO.	①	②
K5 – G5	◯	
K12 – DG12	◯	
G7 – DG7		
K9 – H9	◯	◯

Connector Connection
K5,K24,K34,K9
G7,G18

8 Self Check

1. Self-Check is used to automatically check the bus lines and hexadecimal code of the TV set.
2. To get into the Self -Check mode press the Down (−/∨) button on the customer controls at the front of the set, at the same time pressing the Recall button on the remote control, and the screen will show :



If the CCU ports have been checked and found to be incorrect or not located then "--" will appear in place of "O.K.".

Display	Ref.No	Description	P.C.B.
MEM	IC1008	EEPROM	DG-BOARD
GC2M	IC1301	GROBAL CORE MAIN	DG-BOARD
GC2P	IC1304	GROBAL CORE SUB	DG-BOARD
GC2S	IC1302	GROBAL CORE 3D Comb	DG-BOARD
GC2V	IC1350	GROBAL CORE V Scalar	DG-BOARD
HAD	IC1851	HD-AD CONVERTER	DG-BOARD
LSYNC	IC2652	SYNC PROCESSOR	H-BOARD
AVSW	IC3200	AV switch	H-BOARD
YUVSW	IC1270	YUV switch	DG-BOARD
Tun1	TNR001	TUNER 1	TU-BOARD
VIF	—	—	—
DAC1	IC3003	Ext. DAC	DG-BOARD
MSP	IC2002	Multi Sound Processor	H-BOARD
SOUND	IC2401	AUDIO AMP	PA-BOARD
PANEL	—	PANEL	—

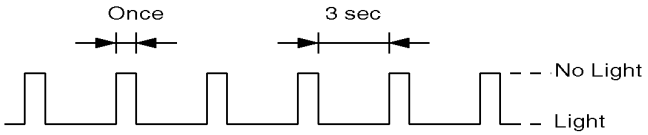
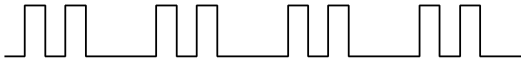
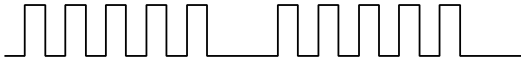
8.1. Power LED Blinking timing chart

1. Subject

   Information of LED Flashing timing chart.

2. Contents

   When an abnormality has occurred the unit, the protection circuit operates and reset to the stand by mode. At this time, the defective block can be identified by the number of blinkes of the Power LED on the front panel of the unit.

Blinking times	Blinking timing	Contents & Check point
1		Main Micom Power
2		SCAN Driver1
3		3.3V SOS
4		5V SOS
5		Power SOS
7		SCAN Driver2
9		SUS Driver
12		PA board Base Voltage (15, 12, 9, 5, 2.5V)

3. Remarks

   Above Fan function is operated during the fans are installed.

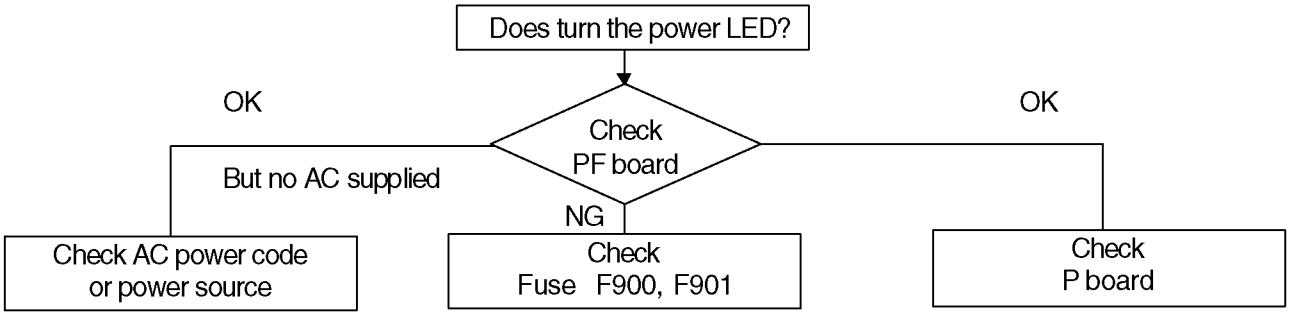
8.2. No Power

First check point

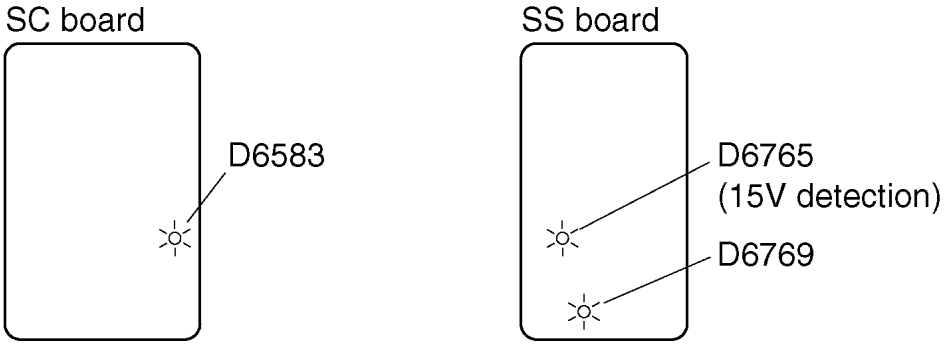
There are following 3 states of No Power indication by power LED.

1. No lit
2. Green is lit then turns red blinking a few seconds later.
3. Only red is lit.

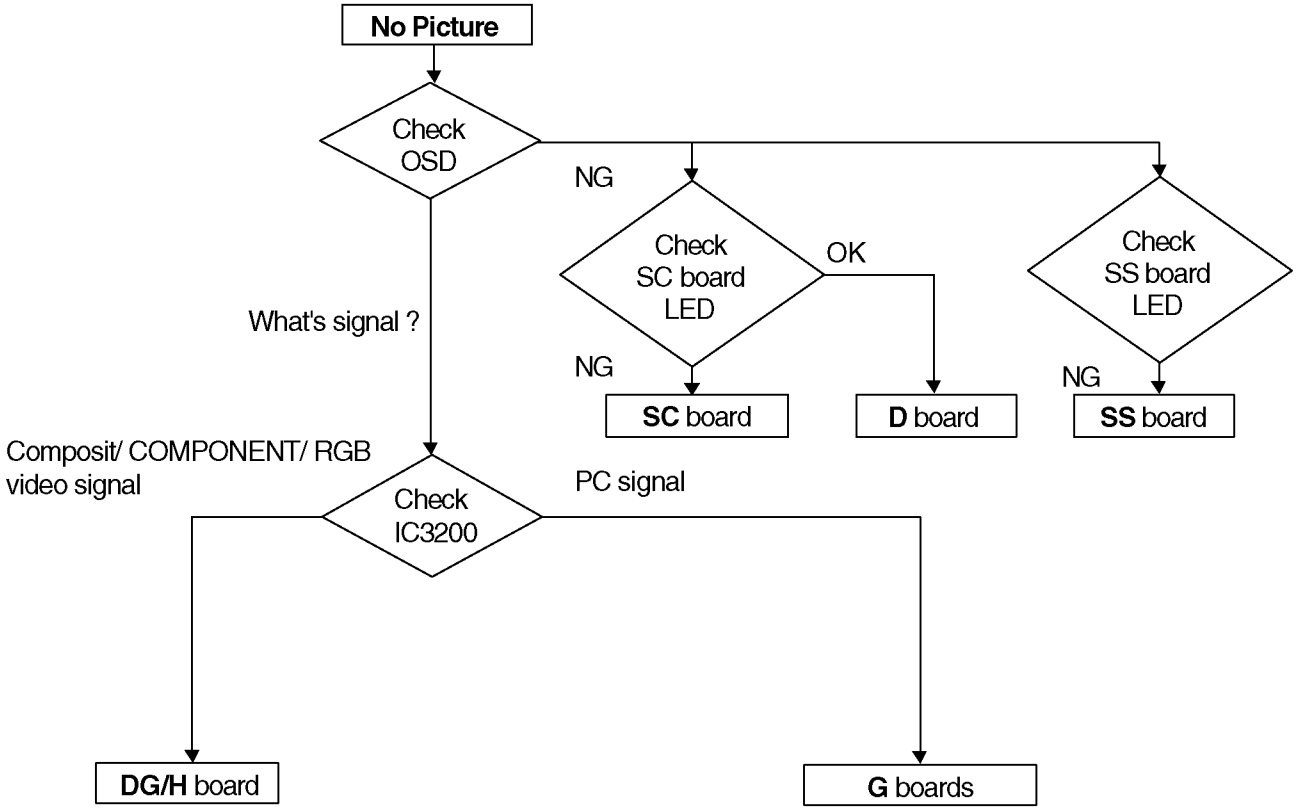
1. No lit



Drive circuits LED indicator

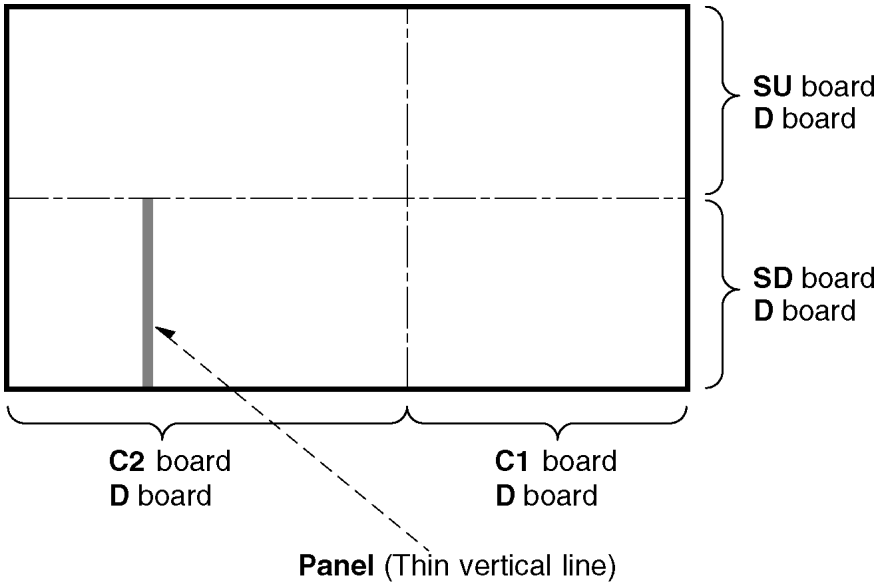


8.3. No Picture



8.4. Local screen failure

Plasma display may have local area failure on the screen. Fig - 1 is the possible defect P.C.B. for each local area.



<Local screen failure chart>

Fig - 1

9 Service Mode Function

MPU controls the functions switching for each IICs through IIC bus in this chassis. The following setting and adjustment can be adjusted by remote control in Service Mode.

9.1. How to enter SERVICE 1

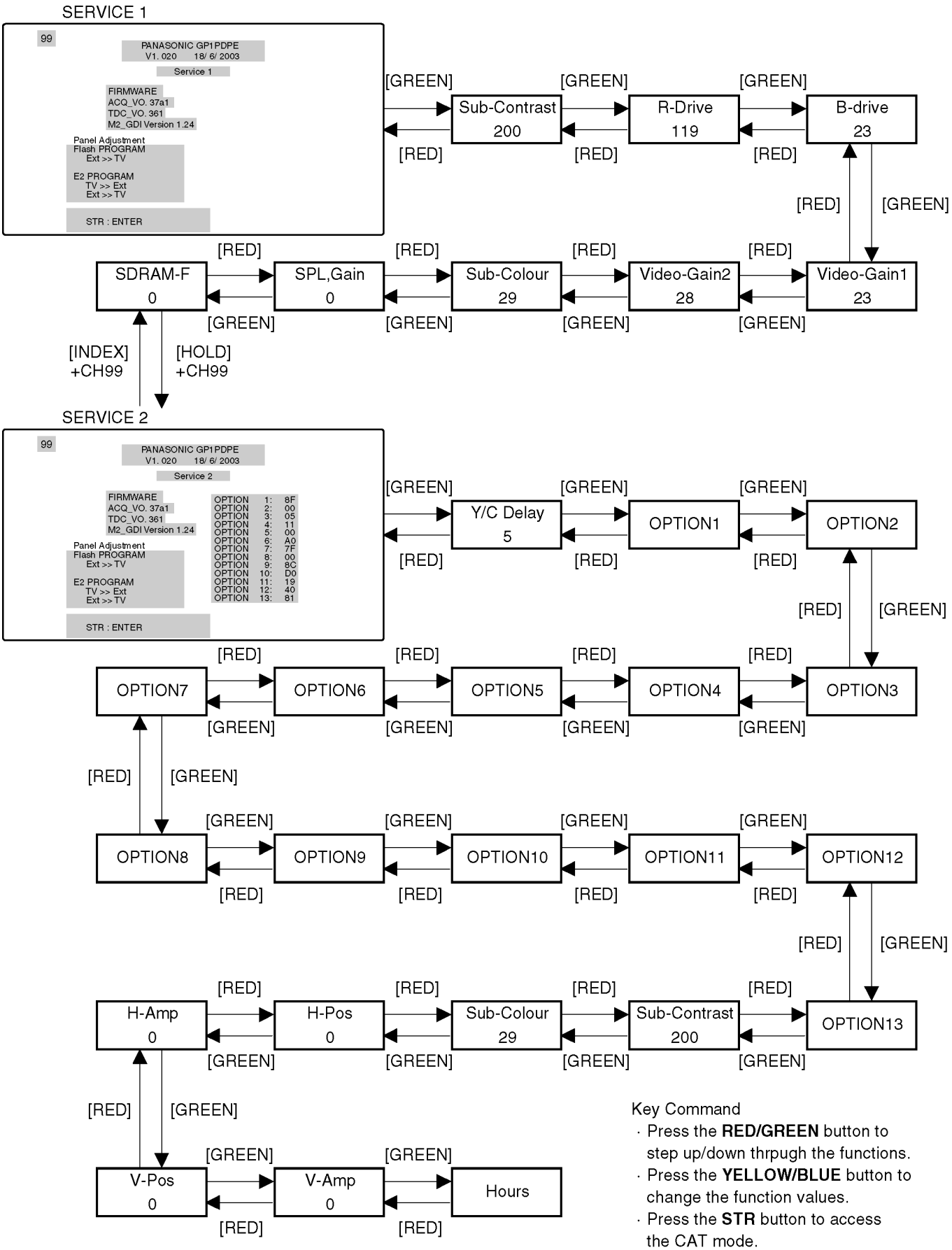
1. In sound menu, set BASS to MAX/MUM, and set TREBLE to MINIMUM.
2. Simultaneously press **INDEX** button on remote control and **DOWN** button [–/∨] on the TV set.

9.2. How to enter SERVICE 2

1. Set the channel to CH99.
2. Press HOLD button on remote control.

Note:

To exit to Service mode, press N or Power button on remote control.



Key Command

- Press the **RED/GREEN** button to step up/down thrpugh the functions.
- Press the **YELLOW/BLUE** button to change the function values.
- Press the **STR** button to access the CAT mode.

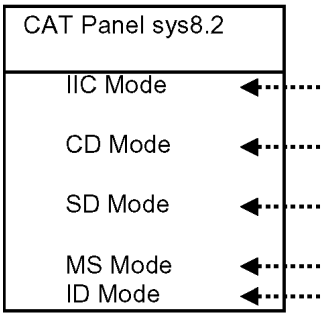
9.3. Option Description

		TH-42 PA20E	TH-42 PA20B		
option1		8F	81		
	b0	1	1	Colour system	Auto(1)
	b1	1	0		SECAM(1)
	b2	1	0		NTSC(1)
	b3	1	0		M.NTSC(1)
	b4	0	0	TV NTSC 50	Reserved
	b5	0	0	TV SECAM 60	Reserved
	b6	0	0	AV NTSC 50	Reserved
	b7	1	1	AV SECAM 60	Reserved
option2		00	00		
	b0	0	0	(CH Plan)	set to 0
	b1	0	0		set to 0
	b2	0	0		set to 0
	b3	0	0		set to 0
	b4	0	0		set to 0
	b5	0	0		set to 0
	b6	0	0		set to 0
	b7	0	0		set to 0
option3		B5	15		
	b0	1	1	(sub picture)	set to 0
	b1	0	0	(2tuner)	set to 0
	b2	1	1	(VGA)	set to 0
	b3	0	0	(YUV)	set to 0
	b4	1	1	(Wide (16:9))	set to 0
	b5	1	0	HYPER	UHF only (0), UHF/VHF (1)
	b6	0	0	SIF	I only(0), BG only(1)
	b7	1	0		I/BG/DK/L(2), BG/DK(3)
option4		11	10		
	b0	1	0	A2 enable	enable(1)
	b1	0	0		set to 0
	b2	0	0		set to 0
	b3	0	0		set to 0
	b4	1	1	NICAM enable	enable(1)
	b5	0	0		set to 0
	b6	0	0		set to 0
	b7	0	0		set to 0
option5		00	00		
	b0	0	0	(A2 select 6.5MHz)	set to 0
	b1	0	0	(NICAM priority)	set to 0
	b2	0	0		set to 0
	b3	0	0		set to 0
	b4	0	0		set to 0
	b5	0	0		set to 0
	b6	0	0		set to 0
	b7	0	0		set to 0
option6		A0	A0		
	b0	0	0	(VCR/GAME in search)	Set to 0
	b1	0	0	(SASO enable)	set to 0
	b2	0	0	Noise mute	Noise mute enable(0)
	b3	0	0	Monitor out AV1 mute	Monitor out AV1 mute(1)
	b4	0	0	(AV SW 3/2AV out)	set to 0
	b5	1	1	Tuner	MACO tuner (0), ALPS tuner (1)
	b6	0	0	free	
	b7	1	1	free	
option7		7F	04		
	b0	1	0	Power up EC-Mode	Power on EC enable (1)
	b1	1	0	CH Blanking	Blanking enable (1)
	b2	1	1	AV Blanking	Blanking enable (1)
	b3	1	0	Auto WIDE	WSS enable only in aspect Auto (0), WSS always enable (1)
	b4	1	0	Volume correction	TV Volume correction enable (1)
	b5	1	0	AVLink	Q-Link on/off selectable in menu (1)
	b6	1	0	MPX/NICAM display	Display NICAM (0), Display MPX (1)
	b7	0	0	free	

		TH-42 PA20E	TH-42 PA20B		
option8		D0	40		
	b0	0	0	free	
	b1	0	0	(Geomagnetic Sensor)	set to 0
	b2	0	0	(Geomagnetic Polarity)	set to 0
	b3	0	0	RF Attenuation	Enable(1)
	b4	1	0	Fine tuning	Enable(1)
	b5	0	0	Search speed	Slow(1) Fast(0)
	b6	1	1	TEXT FLOF	Reserved
	b7	1	0	TEXT TOP	TOP enable (1)
option9		8C	8C		
	b0	0	0	free	
	b1	0	0	free	
	b2	1	1	free	
	b3	1	1	free	
	b4	0	0	free	
	b5	0	0	(Surround SP polarity)	set to 0
	b6	0	0	Volume curve	Volume curve1(0), curve2(1)
	b7	1	1	free	
option10		00	00		
	b0	0	0	free	
	b1	0	0	(OSD language)	set to 0
	b2	0	0		set to 0
	b3	0	0		set to 0
	b4	0	0	Blue Back	enable(0)
	b5	0	0	free	
	b6	0	0	free	
	b7	0	0	(Protect 5V detect)	set to 1
option11		19	11		
	b0	1	1	Shop mode	enable(1)
	b1	0	0	(DDM/Dynamic display)	set to 0
	b2	0	0	(Sub Headphone)	set to 0
	b3	1	0	Scan mode Blanking	Blanking enable (1)
	b4	1	1	User aspect 14:9	enable(1)
	b5	0	0	(NICAM C4 bit)	set to 0
	b6	0	0	(ID-1)	set to 0
	b7	0	0	(1080i)	set to 0
option12		40	48	**Area Option**	
	b0	0	0	(Asia)	set to 0
	b1	0	0	(Australia)	set to 0
	b2	0	0	Ireland	Ireland(1)
	b3	0	1	UK	UK(1)
	b4	0	0	(MELCOA)	set to 0
	b5	0	0	(28 inch)	set to 0
	b6	1	1	(Large size)	set to 1
	b7	0	0	(PTV)	set to 0
option13		81	05	**Temporary**	
	b0	1	1	(VDU Version)	set to 0
	b1	0	0	(GC Version)	set to 1
	b2	0	1	(UV Swap)	set to 0
	b3	0	0	TEXT	Enable(1)
	b4	0	0	LT2 22inch	22inch(1), 15inch(0)
	b5	0	0	free	
	b6	0	0	(Picture Shift)	set to 1
	b7	1	0	(CIP2)	set to 0

10 CAT (computer Aided Test) mode

CAT mode menu



Mode	Function	Access button
IIC	Service Alignment	STR
CD(Complete Diagnostics)	Software version information EEPROM edit	Mute more than 5 seconds
SD(Status Display)	MTBF parameter	STR
MS Mode	Not use	-----
ID	Not use	-----

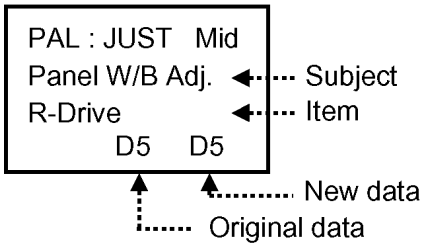
How to access the CAT mode.

1. Enter the service mode.
2. Press the STR button on the remote control.

10.1. IIC mode

Select the IIC mode by **Up/Down button** on the remote control at the front page of CAT mode then press the **STR button** on the remote control.

OSD



How to use the IIC mode.

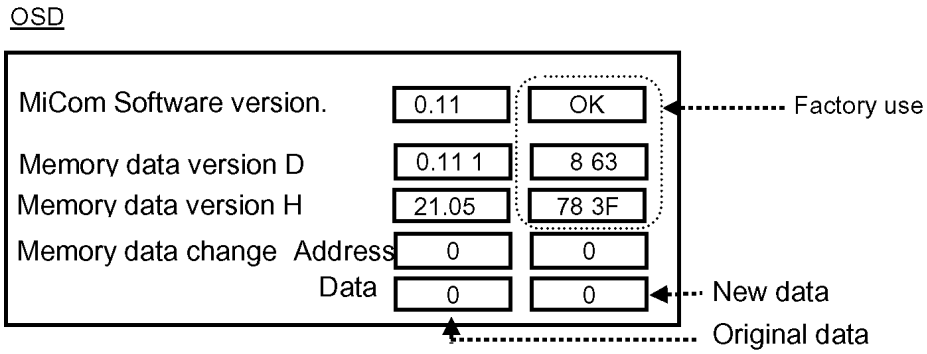
1. Select the alignment **Subject** by **1/2 buttons** on the remote control.
2 .Select the alignment **Item** by **3/4 buttons** on the remote control.
3. Adjust **optimum setting** by **Volume Up/Down buttons** on the remote control.
4. The **data is memorized** when press the **N button** on the remote control or change the alignment Subject (or Items).

Subject and item are mentioned on IIC mode structure.

To exit the IIC mode, press the **N button** on the remote control.

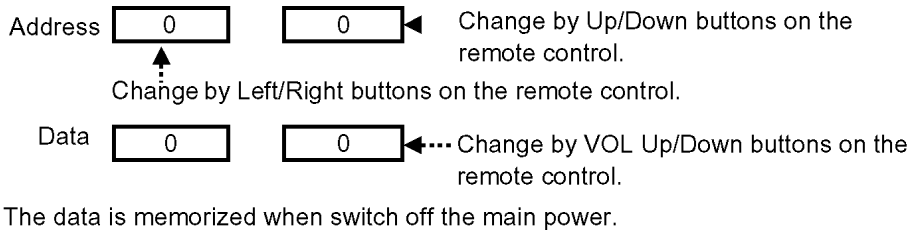
10.2. CD mode

Select the CD mode by **Up/Down button** on the remote control at the front page of CAT mode then press the **Mute button** on the remote control more than 5 sec.



Micom software version (IC9354), this version can be upgrade by replace of new version IC

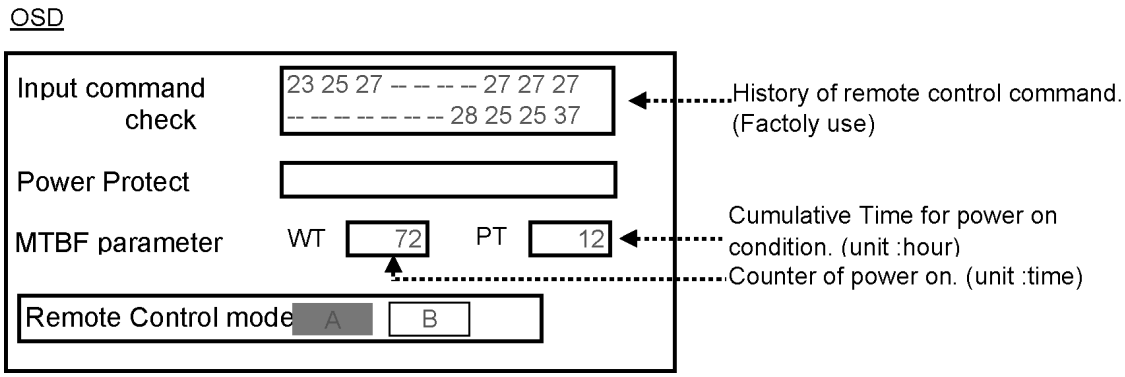
Memory data change



To exit the CD mode, press the **R button** on the remote control.

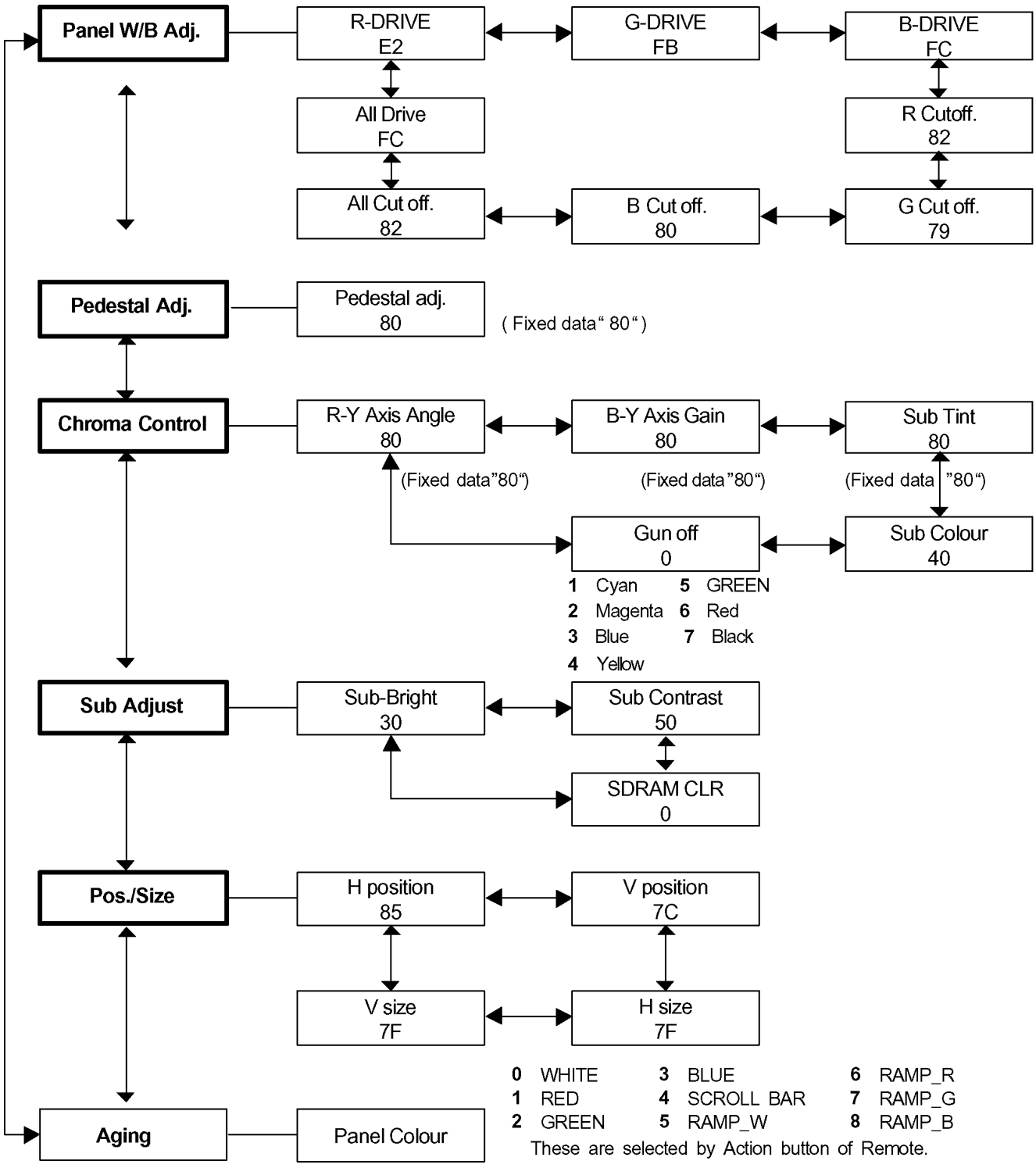
10.3. SD mode

Select the SD mode by **Up/Down button** on the remote control at the front page of CAT mode then press the **STR button** on the remote control.



To exit the SD mode, press the **N button** on the remote control.

10.4. IIC mode structure (following items value is sample data.)



11 Adjustment Procedure

11.1. +B Set-up

11.1.1. Item / Preparation

1. Input a Grey scale signal.
2. Set the picture controls: -
   Picture mode: Normal
   Colour balance: Normal

11.1.2. Adjustments

Adjust and confirm indicated test point for the specified voltage.

Adjust

Name	Volume	Voltage	Test Point	Remarks
Vsus	R605	170V ± 1V	P11 pin 2	
Vda	R590	67V ± 0.5V	P12 pin 1	

Confirm

Name	Voltage	Test Point	Remarks
15V	15.4V ± 0.5V	P23 pin 1	
15V	15.2V ± 0.5V	P7 pin 1	
12V	11.8V ± 0.5V	P25 pin 1	
Audio+12V	12.5V ± 0.8V	P5 pin 7	
5V	5.1V ± 0.3V	P25 pin 5	
STB 5V	5.0V ± 0.3V	P27 pin 4	
Fan 15V	15.4V ± 0.5V	P10 pin 1	
Fan 5V	5.1V ± 0.3V	P10 pin 4	
PFC	380V ± 15V	C468(+)	

11.2. Driver Set-up

11.2.1. Item / Preparation

1. Input an APL 100 % white signal.
2. Set the picture controls: -
   Picture mode: Normal
   Colour balance: Cool
   Aspect: 16:9

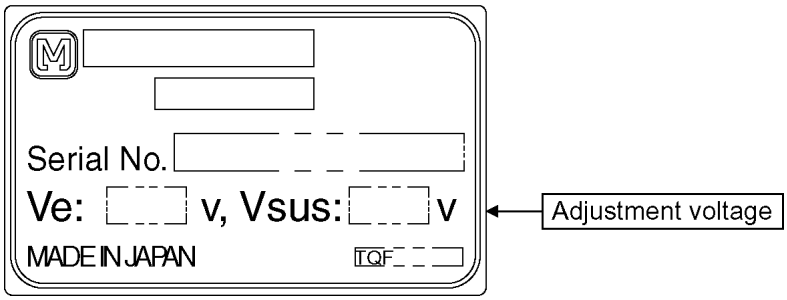
11.2.2. Adjustments

Adjust driver section voltages referring the panel data on the panel data label.

Name	Test Point	Voltage	Volume	Remarks
Vsus	TPVSUS (SS)	170V ± 1V	R605 (P)	
Vbk	TPVBK (SC)	155V ± 5V	R6443 (SC)	
Ve	TPVE (SS)	158V ± 1V	R6774 (SS)	
Vset	TPVSET (SC)	218V ± 6V	---	
Vad	TPVAD (SC)	-90V ± 1V	R6477 (SC)	
Vscn	TPVSCN (SC)	Vad*+118V ± 2V	---	
Vda	TPVDA (SS)	67V ± 1V	R590 (P)	

*See the Panel label.

Panel Label information



11.3. Initialization Pulse Adjust

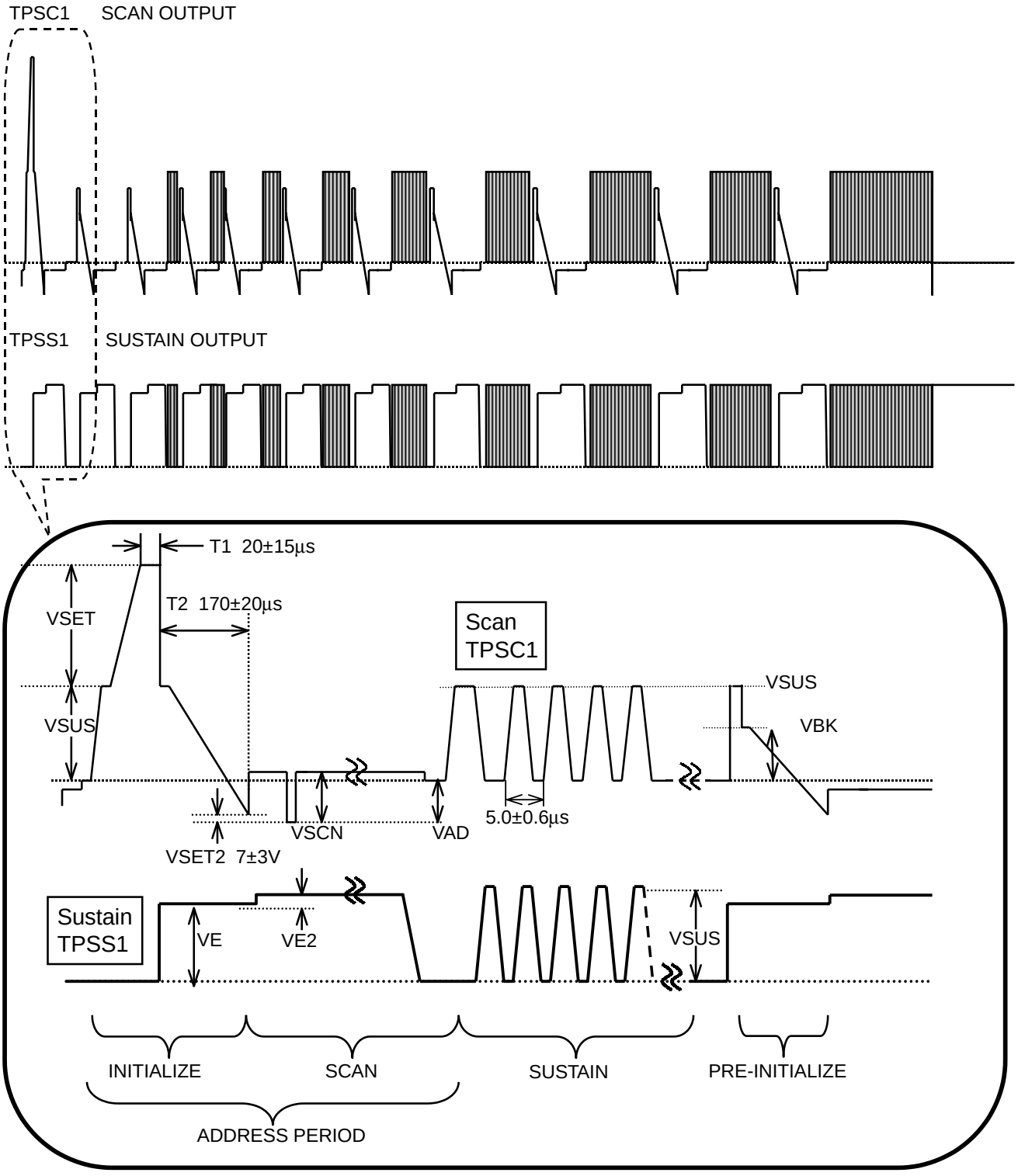
1. Input a Cross hatch signal.
2. Set the picture controls: -

   Picture mode: Normal

   Colour balance: Cool

Adjust the indicated test point for the specified wave form.

	Test point	Volume	Level
T1	TPSC1 (SC)	---	---
T2	TPSS1 (SS)	R6557 (SC)	170 ± 20µ Sec



11.4. P.C.B. (Printed Circuit Board) exchange

11.4.1. Caution

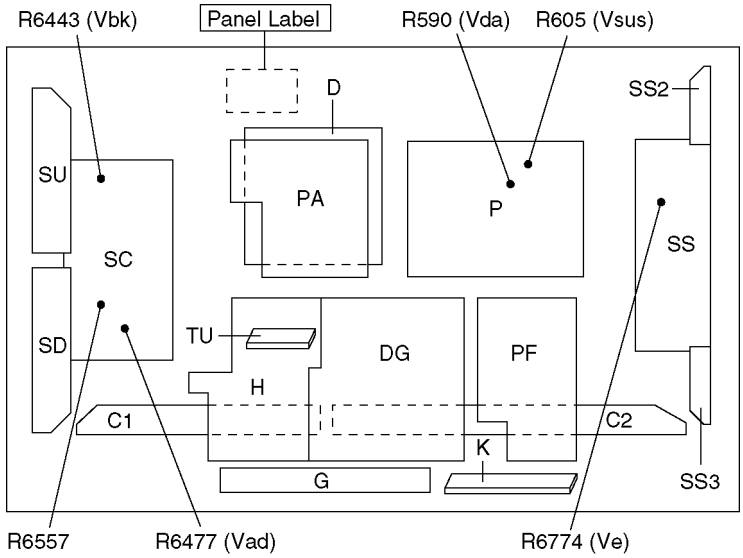
1. To remove P.C.B. , wait 1 minute after power was off for discharge from electrolysis capacitors.

11.4.2. Quick adjustment after P.C.B. exchange

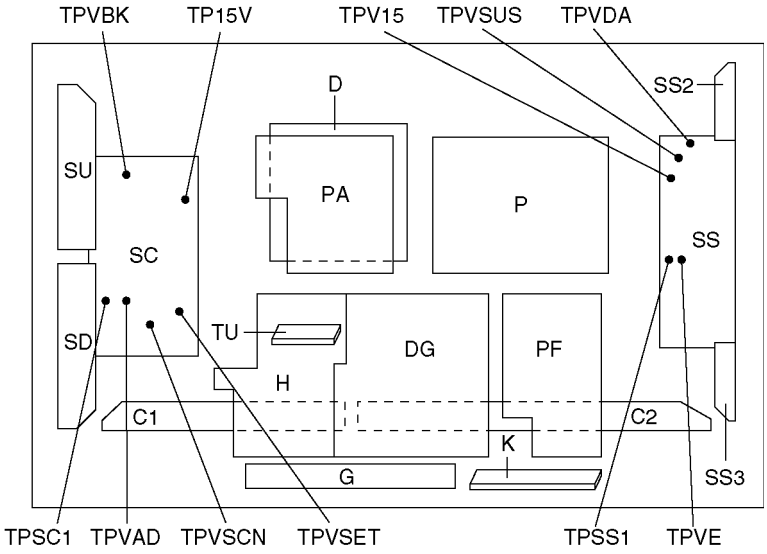
P.C.B.	Name	Test Point	Voltage	Volume	Remarks
P Board	Vsus	TPVSUS (SS)	170V ± 1V	R605 (P)	
	Vda	TPVDA (SS)	67V ± 1V	R590 (P)	
SC Board	Vbk	TPVBK (SC)	155V ± 5V	R6443 (SC)	
	Vad	TPVAD (SC)	-90V ± 1V	R6477 (SC)	
	Vset	TPVSET (SC)	218V ± 6V	- - -	
	Vscn	TPVSCN (SC)	Vad ± 118 ± 2V	- - -	
SS Board	Ve	TPVE (SS)	158V ± 1V	R6774 (SS)	
D, DG Board	White blance, Pedestal and Sub brightness for NTSC, PAL, HD, PC and 625i signals				

*See the Panel label.

11.5. Adjustment Volume Location

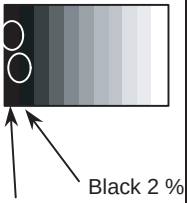
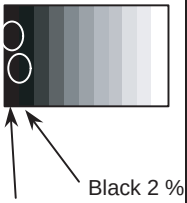


11.6. Test Point Location

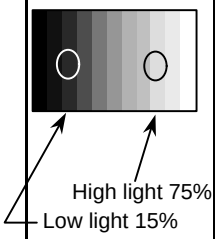


12 Alignment

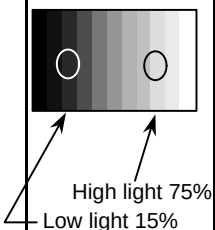
12.1. Pedestal setting

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	RF Sub Bright Pattern  		Picture: Normal Colour balance: **Cool** Aspect: 16:9	PANEL W/B R cut off G cut off B cut off Chroma Control: Gun off RGB Sub Adjust: G Sub Bright 1 Chroma Control: Gun off RGB Sub Adjust: B Sub Bright 1 Chroma Control: Gun off RGB Sub Adjust: R Sub Bright 1	** Adjust at the dark room. 1) Set R,G and B cut off to " **80** ". 2) Set Gun off to "**5**". (Only green pixels can emit.) 3) Adjust G Sub bright 1 to start some of green pixels emission at black 2% area and no emission at black 0% area. 4) Set Gun off to "**3**". (Only blue pixels can emit.) 5) Adjust B Sub bright 1 to start some of blue pixels emission at black 2% area and no emission at black 0% area. 6) Set Gun off to "**6**". (Only red pixels can emit.) 7) Adjust R Sub bright 1 to start some of red pixels emission at black 2% area and no emission at black 0% area.
2	HD Sub Bright Pattern  		Picture: Normal Colour balance: **Cool** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change input to HD signal. 2) Repeat procedure 1) to 7) of Component input signal.

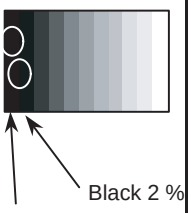
12.2. PAL panel white balance

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	PAL White Balance Pattern  	Color Analyzer	Picture: Normal Colour balance: **Cool** Aspect: 16:9	 Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m2 as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m2 exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-01. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m2. 6)Find 75% of white area by color sensor. 7) Set G Drive to " E8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-01. 9) Repeat procedure 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again. Color Temp. / x / y Cool(Hi) / 0.276 / 0.276 Normal(Mid) / 0.288 / 0.296 Warm(Low) / 0.313 / 0.329 Fig. -01
2			Picture: Normal Colour balance: **Normal** Aspect: 16:9	 PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal Colour balance: **Warm** Aspect: 16:9	 PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal Colour balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"

12.3. PC panel white balance

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	PC White Balance Pattern  	Color Analyzer	Picture: Normal Colour balance: **Cool** Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m2 as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m2 exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-02. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m2. 6)Find 75% of white area by color sensor. 7) Set G Drive to " E8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-02. 9) Repeat item 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again. Color Temp. / x / y Cool(Hi) / 0.276 / 0.276 Normal(Mid) / 0.288 / 0.296 Warm(Low) / 0.313 / 0.329 Fig. -02
2			Picture: Normal Colour balance: **Normal** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal Colour balance: **Warm** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal Colour balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"

12.4. Sub brightness setting

1	PAL Sub Bright Pattern  		Picture: Normal Aspect: 16:9	PANEL W/B All cut off	** Adjust at the dark room. Finish white balance adjustment 1) Set white balance to **Cool**. 2) Adjust All cut off to start some pixels emission at black 2% area and no emission at black 0% area. 3) Write down all cut off data. 4) Set white balance to **Nornal**. 5) Adjust All cut off to set same data of Cool mode. 6) Set white balance to **warm**. 7) Adjust All cut off to set same data of Cool mode.
	PC Sub Bright Pattern				8) Change to PC signal. 9) Copy PAL All cut off data to PC mode.

12.5. ABL Level

Instrument name	Connection	Remarks
1. HD Signal Generator (Color Bar Pattern) 2. Power meter	COMPONENT INPUT	
Setting		
Perform aging for more than 30 minutes. Power-Supply voltage: 100V 50/60Hz (Distortion indicate 1%) Volume is MINIMUM; Screen size is MAX/MUM.		
Procedure		
1. Connect power meter to AC power. 2. Apply a color bar pattern. 3. Select APL MULT from Panel APL/ABL of IIC mode. 4. Adjust APL MULT so that power consumption may Indicate following value. TH-42PA20E/B 307 ± 10W		Initialization : 1C Power is in inverse Proportion to data. (Reduce data when increase power.)

13 Hotel mode

1. Purpose

   Restrict a function for hotels.

2. Access command

   ・Enter to the Service 2 Mode.

   ・Press RECALL button on remote control and entry to the EAROM EDITOR Mode.

   ・Set the data of EEPROM(ADDRESS 160) to C0.



   Push the Power switch(button) off/on the set(the remote control) to turn the set off/on.

   It can be made Hotel mode.

3. Exit command

   ・First, set the data of EEPROM(ADDRESS 160) to 80.

   Next, Push the Power switch(button) off/on the set(the remote control) to turn the set off/on.

   Then, it is no longer hotel mode.

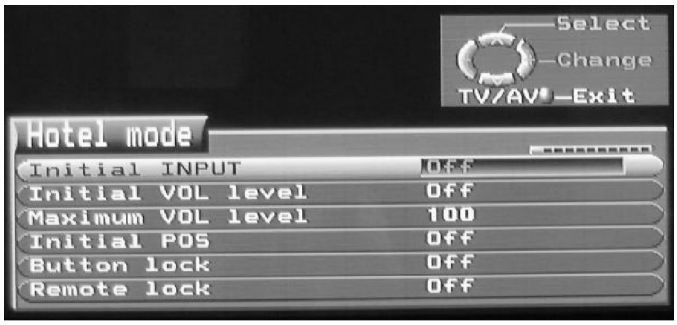
4. Access command to the Hotel mode setup menu

   ・<Prerequisite> : It is conditions that the data of EEPROM(ADDRESS 160) is C0.

   In order to display the Hotel mode setup menu, please enter the following command **(within 2 second)**.

   [TV]:down + [REMOTE]:TV/AV(3 times)

   Then, the Hotel mode setup menu is displayed.

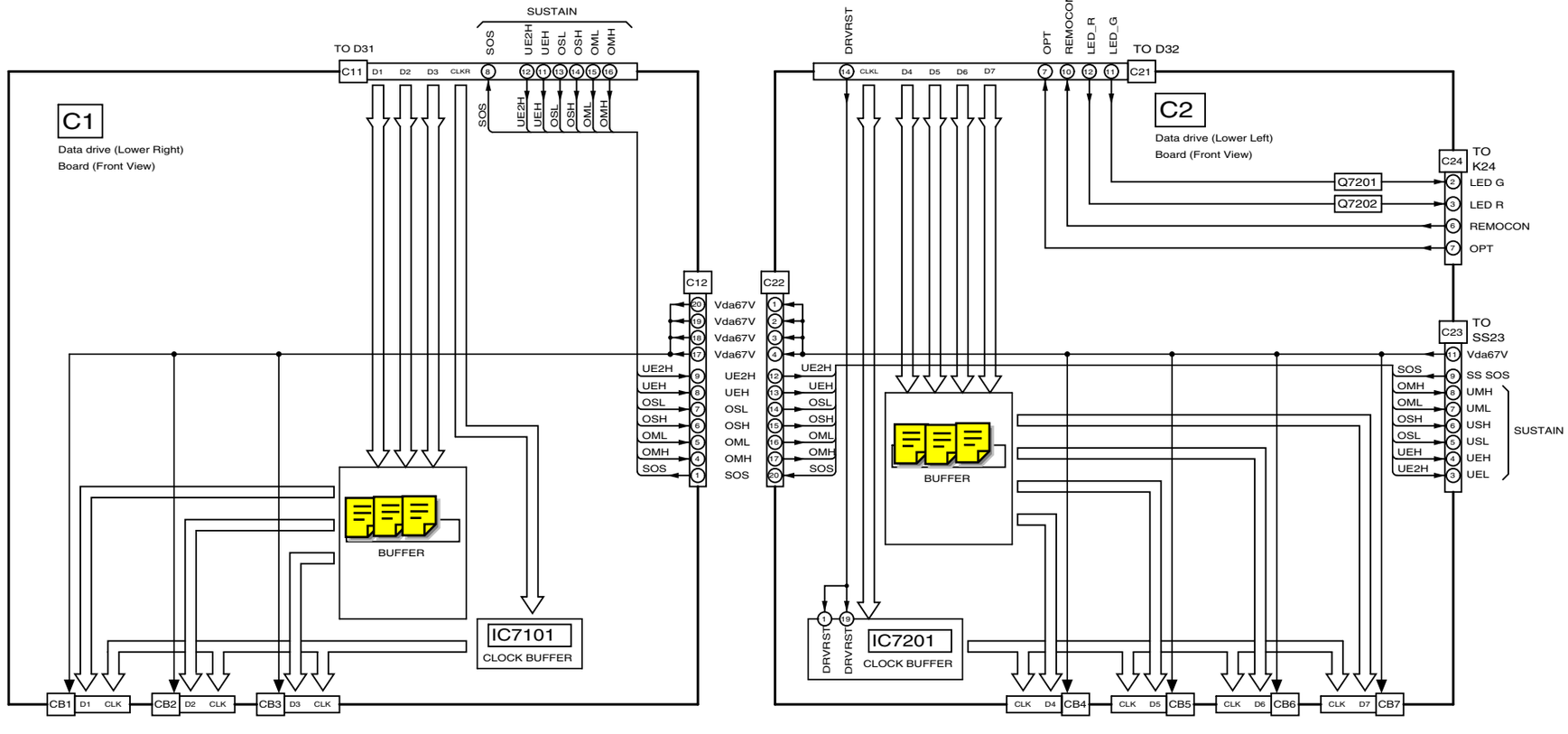


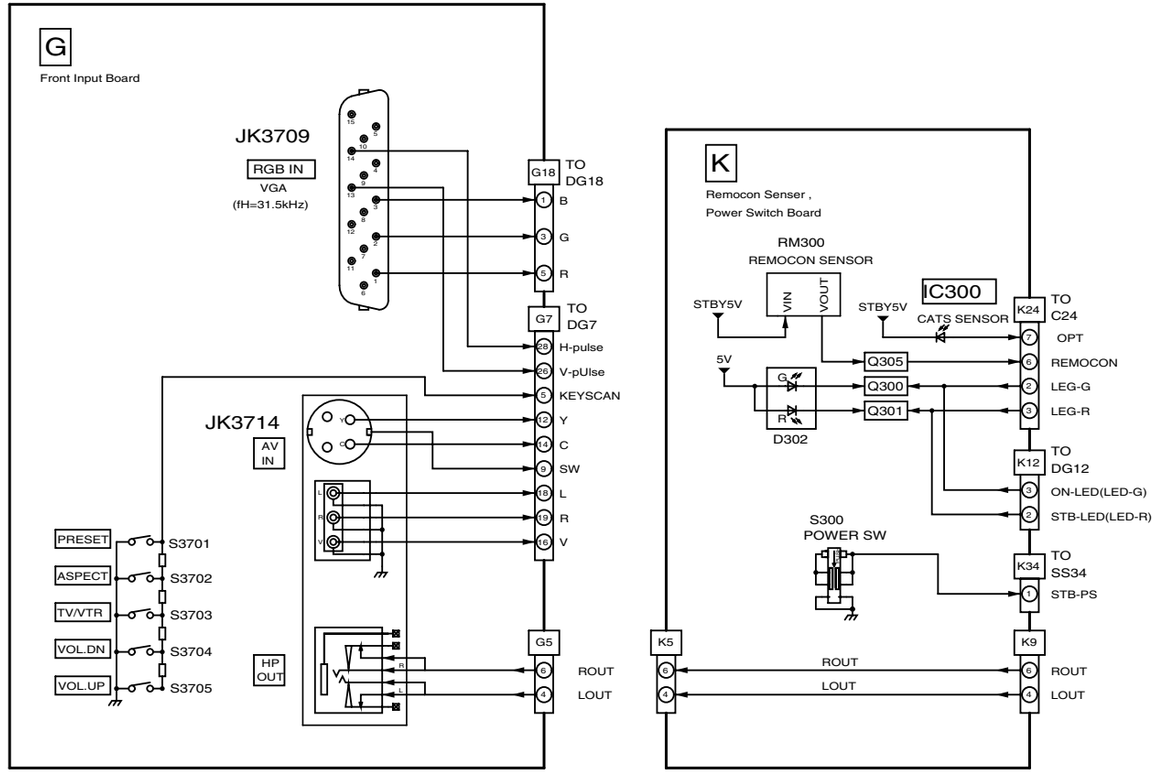
5. Explain the Hotel mode setup menu

CAUTION

This setup is not valid, unless data of EEPROM(ADDRESS 160) will be C0, even if each settings were done.

item	Function
Initial INPUT	Select input signal modes. Set this signal, each time power is switched on. <Selection> : Off/TV/AV1/AV2/AV2S/AV3/Av3S/AV4/Av4S/AV4C/PC ・Off: give priority to a last memory. However, Euro model is compulsorily set to TV. ・AVnS/AVnC: only Euro model selectable ・PC: selectable with VGA option
Initial VOL level	Adjust output Volume. Set this volume, each time power is switched on. If the value of InitVol is changed, volume will change. However, priority is given to a last memory when InitVol is Off. When "InitVol" is larger than "MaxVol", make "InitVol" and "MaxVol" the same. <Selection/Range> : Off/0 to 100 ・Off: give priority to a last memory
Maximum VOl level	Adjust maximum volume. Set this max. volume, each time power is switched on. When "MaxVol" is smaller than "InitVol", make "MaxVol" and "InitVol" the same, if "InitVol" is not Off. <Range> : 0 to 100
Initial POS	Select program number. Set this program number, each time power is switched on. <Selection> : Off/0 to 99 (Euro model) ・Off: give priority to a last memory
Button lock	Select local key conditions. Set this condition, each time power is switched on. <Selection> : Off/SETUPMENU/All ・Off: altogether valid ・SETUP: restrict F-key selection (Tuning guide(menu) can not be selected.) ・MENU: restrict F-key selection (only Volume/Mute can be selected.) ・All: altogether invalid.
Remote lock	Select remote control key conditions. Set this condition, each time power is switched on. <Selection> : Off/SETUP/MENU ・Off: altogether valid ・SETUP: only Setup menu is invalid ・MENU: Picture/Sound/Setup menu are invalid

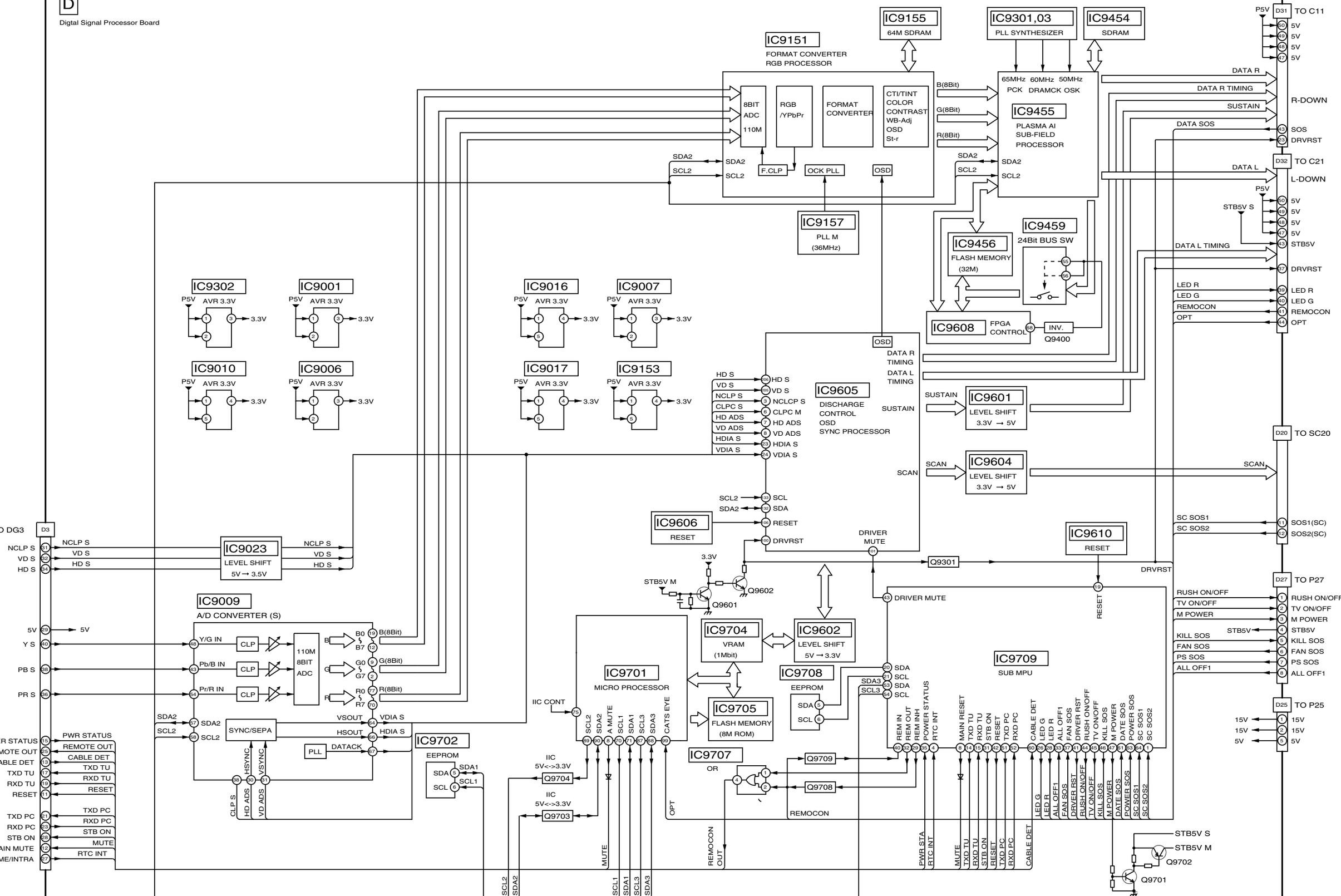




TH-42PA20B/E
C1,C2,G and K-Board Block Diagram

D

Digtal Signal Processor Board



TH-42PA20B/E D-Board Block Diagram

DG

Micom,Digtal Signal Processor Board

TO H1 — DG1

IC1270
AV SW

AV4 Y, AV4 Pb, AV4 Pr, MAIN Y/VBS, MAIN C/Pb, SUB Y/VBS, SUB C/Pb

G-1 Y-OUT1 / B-1 U-OUT1 / R-1 V-OUT1 / Y-3 Y-OUT2 / U-3 U-OUT2 / Y-4 V-OUT2 / U-4

MAIN Y, MAIN PB, MAIN PR, SUB Y, SUB PB, SUB PR

Q1340 Q1351 Q1317 — Q1302 Q1363 — Q1303 Q1336 — Q1304 Q1337 — Q1310 — MAIN-Y, MAIN-PB, MAIN-PR, MAIN-Y

IC1304
GC 2P

VIN, AOUT1, AOUT2, SCL, SDA, RST, FRCLK

IC1331
MEMORY
64Mbit SDRAM

IC1305
RGB SW

3D Y, MAIN-Y, 3D C, MAIN-PB — IN1A, IN1B, IN2A, IN2B — OUT1, OUT2

Q1312 Q1316 Q1343 — Q1311 Q1315 Q1342 — Q1361 Q1360 — Q1327 Q1355 Q1325 Q1326 — GC2M-Y, GC2M-PB, MAIN-PR

TO PA8 — DG8 — SCL1 SDA1 SCL2 SDA2 SRQ SDA3 SCL3 LO TXD LO RXD LOADER

DG32 — SCL0 SDA0 SCL3 SDA3 SRQ

DG31 — SRQ SDA3 SCL3 WP

LO TXD, TU TXD, LO RXD, TU RXD, LOADER — X0 X1 Y0 Y1 A — X Y

IC1002
CONVERT MICON

TXD1 SCL RXD1 SDA RST

IC1004
RESET

OUT

IC1009
5V<=>3.3V

IC1001
SWITCHING

SCL0 SDA0 SCL1 SDA1 SCL1L SDA1L SCL2 SDA2

IC1008
EEPROM

SCL SDA

GC RESET

IC1010
RESET

OUT — Q1010

IC1003
STB 2.5V — 5V — 2.5V

IC1005
STB 3.3V — 5V — 3.3V

IC1012
MEMORY
64Mbit SDRAM

IC1013
16Mbit
FLASH-ROM

IC1311
3.3V AVR 2.5V — PLL 2.5V

IC1319
3.3V AVR 2.5V — AD 2.5V

IC1325
5V AVR 3.3V — 3.3V

EC R, EC G, EC B, EC FB — Q1821 Q1822 Q1824 / Q1801 Q1802 Q1804 / Q1811 Q1812 Q1814 — EC RED, EC GREEN, EC BLUE, EC FB

IC1332
5V AVR 3.3V — 3.3V

IC1333
5V AVR 3.3V — 3.3V

IC1322
5V AVR 2.5V — AD 2.5V

IC1324
5V AVR 2.5V — PLL 2.5V

IC3003
DAC — SCL SDA

IC3517
SWITCHING

IC3004
DAC — SCL SDA

IC3699
EEROM

WP SCL SDA — PANEL SCL3, PANEL SDA3

SCLO SCLI SDAO SDAI — SCL0, SDA0

SDA1 SCL1 SDA0 SCL0

IC1235
5V<=>3.3V

SUB PB — Q1750 Q1759 Q1755 Q1763

SUB PR — Q1756 Q1762 Q1765

SUB Y — Q1752 Q1761 Q1764

VIN1, VIN2, VIN3 — A/D 8bit 60MHz

SYNC SEPA — CLK

Detection Sync: 525i/p, 625i/p, 720p, 1080i, Macrovision — SELF,ID,ED2 NOISE LEVEL

I/F H SCALEER GAIN ADJ

NR/IP — MEMORY CONTROL

IC1321
MEMORY
64Mbit SDRAM

FRCLK

EC RED, EC GREEN, EC BLUE, EC FB

PRIN YIN PBIN YSIN — CLKIN

IC1313
CLOCK

CLK CLK

IC8002
SWITCHING

HSYNC PC HD VSYNC PC VD — X0 X1 Y0 Y1 — X Y

IC8009
SWITCHING

IC8008
2CH MULTIPLEXER

I0 I1 — SEL COM — Q1850

IC8004
TV/VIDEO SYNC

HIN VIN GIN — HD- VD- CLPO — HD VD CLP

TVON

IC1006
SWITCHING

Q1019 Q1012 Q1225 Q1013

IC1007
TEXT MICOM

SRQ, AV2 QLINK, AV4 QLINK, QLINK SEL, MSP DEF, A MUTE, MAIN DEF, A MUTE, AFC1, KEY, LED R, LED G, SOS INFO, REMOCON

SRQ, Q-Link Select, SERVICE, MSP DEF, SOUND DEF, A MUTE, AFC1, KEY, LED R, LED G, SOS INFO, FREE RUN, REMOCON IN

Q1254 Q1255

COR, OSD-YS, OSD-BLUE, OSD-GREEN, OSD-RED — COR, BLANK, B, G, R

YM YS OSD-BLUE OSD-GREEN OSD-RED

TVON, SUB ON, FANONOFF, FANMax/Min, H SYNC, V SYNC, SP MUTE, POFF DEF, SOS, SRQ, AV2 QLINK, AV4 QLINK, QLINK SEL, MSP DEF, A MUTE, MAIN DEF, A MUTE, AFC1, KEY, LED R, LED G, SOS INFO, REMOCON

CVBS1B, CVBS1A, TVON, SUB ON, FANONOFF, FANMax/Min, OSD H, OSD V, SP MUTE, POFF DEF, SOS, RST-DEV, RES IN

AV2 QLINK /SRQ, AV4 QLINK, QLINK SEL, AV MUTE, SOUND DEF, AFC1, AGC1

AV3 Y, AV3 V, AV3 C, AV3 S, AV3 L, AV3 R

MAIN L, MAIN R

TO PA6 — DG6 — L IN, R IN, SCL1, SDA1, RESET, POFF DEF, SP MUTE, MAIN DEF

TO K12 — DG12 — LED R, LED G

TO PA2 — DG2 — TVON, TVON, SOS, AC ON/OFF, FANONOFF, FANMax/Min

Q1007 — SUB ON

KEY

IC1315
PLL 2.5V — 5V — 2.5V

IC1302
GC 2S+

IC1350
GC 2V

IC1301
GC 2M+

CLK VP HP — SCL SDA RST XIN — FREERUN

H SYNC, V SYNC

IC1308
MEMORY
64Mbit SDRAM

CLOCK GENERATION PLLS

INPUT PROCESSOR

• MOTION ADAPIVE NR
• DE-INTERLACER
• FRAME RATE CONVERTER

V/H SCALERS

V/H ENHANCER

OUTPUT PROCESSOR

SCL SDA RST

FRCLK

SYNC SEPA

TBC I/F

Detection Sync: 525i/p, 625i/p, 720p, 1080i, Macrovision — SELF,ID,ED2 NOISE LEVEL

NR FF I/F

FF IP NR JUST

PICTURE IMPROVEMENT

SW

3D/2D com VPK

CHROMA DEM. COLOUR DETECT.

MATRIX RGB → YUV

A/D 10bit 10bit — VIN1, VIN2, VIN3

GC2M-PB, MAIN-PR, GC2M-Y

RGB PROCESSOR

D/A OSD CONT

D/A 8bit x 2

D/A 10bit 110MHz x 3 — AOUT5 AOUT4 AOUT3

CONTRAST CONT. — CNT

DRIVE CONT. — BDV RDV

CUT OFF CONT. — CLP

IC1309
RGB AMP

CONTRAST, B DRIVE, R DRIVE, HCLP

B G R HCLP

IC1853
5V AVR 3.3V — 3.3V

IC1306
3.3V AVR 2.5V — 2.5V

IC1329
BUFFER

IC3251
SWITCHING

R-IN, G-IN, B-IN — INPUT — BRIGHT DET.

R-OUT, G-OUT, B-OUT — Q1600 Q1601 Q1602

R PC R, G PC G, B PC B — RIN1 RIN2 GIN1 GIN2 BIN1 BIN2 — ROUT GOUT BOUT — RED GREEN BLUE

IC8006
RGB LPF

HD VD CLP — I1 I6 I4 — O1 O5 O4 — VP HP CLP

P STATUS, REMOCON, SOS PANEL, REALTIME/INTRA, TXD TU, RXD TU

TVON, REMOCON, SOS INFO, GREEN — Q1025 Q1026 Q1004

TO D3 — DG3 — VDOUT, HDOUT, MCLPOUT, POW STATUS, REMOCON, REALTIME/INTRA, TXD TU, RXD TU

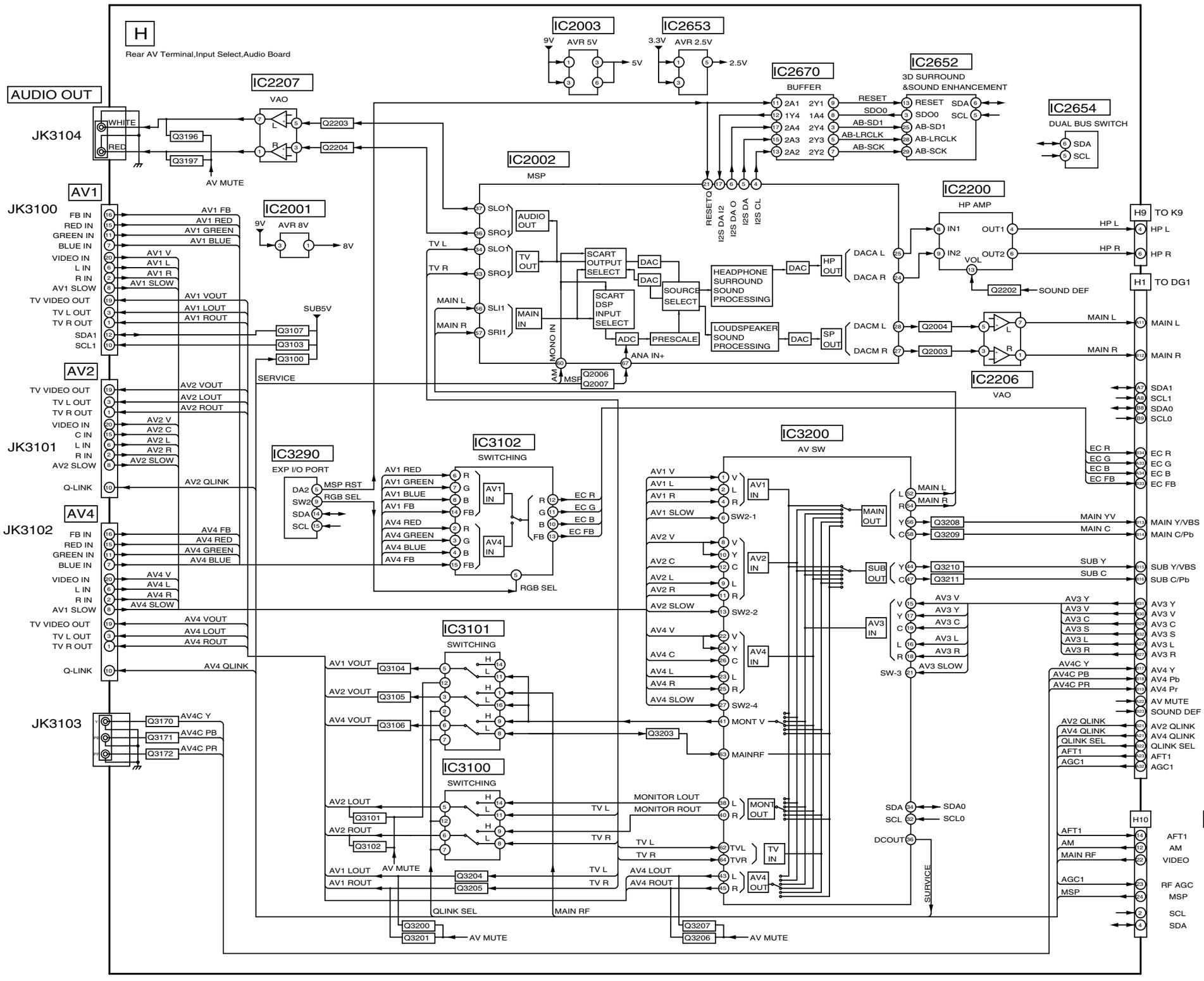
TO G7 — DG7 — S2 Y C V SL SR — AV3 S, AV3 Y, AV3 C, AV3 V, AV3 L, AV3 R

KEY, Vpulse, Hpulse

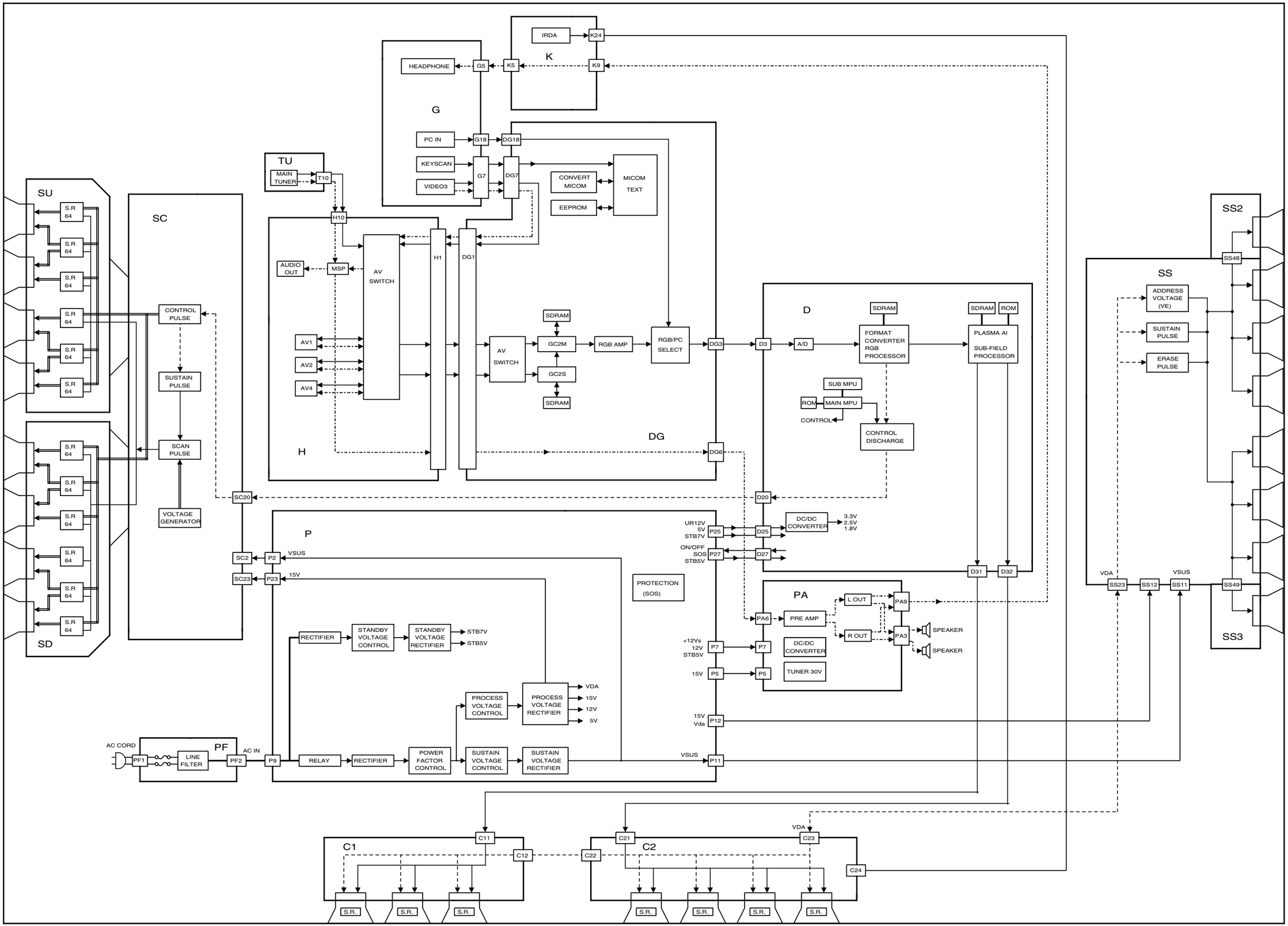
TO G18 — DG18 — B G R — PC B, PC G, PC R

TH-42PA20B/E DG-Board Block Diagram

TH-42PA20B/E DG-Board Block Diagram

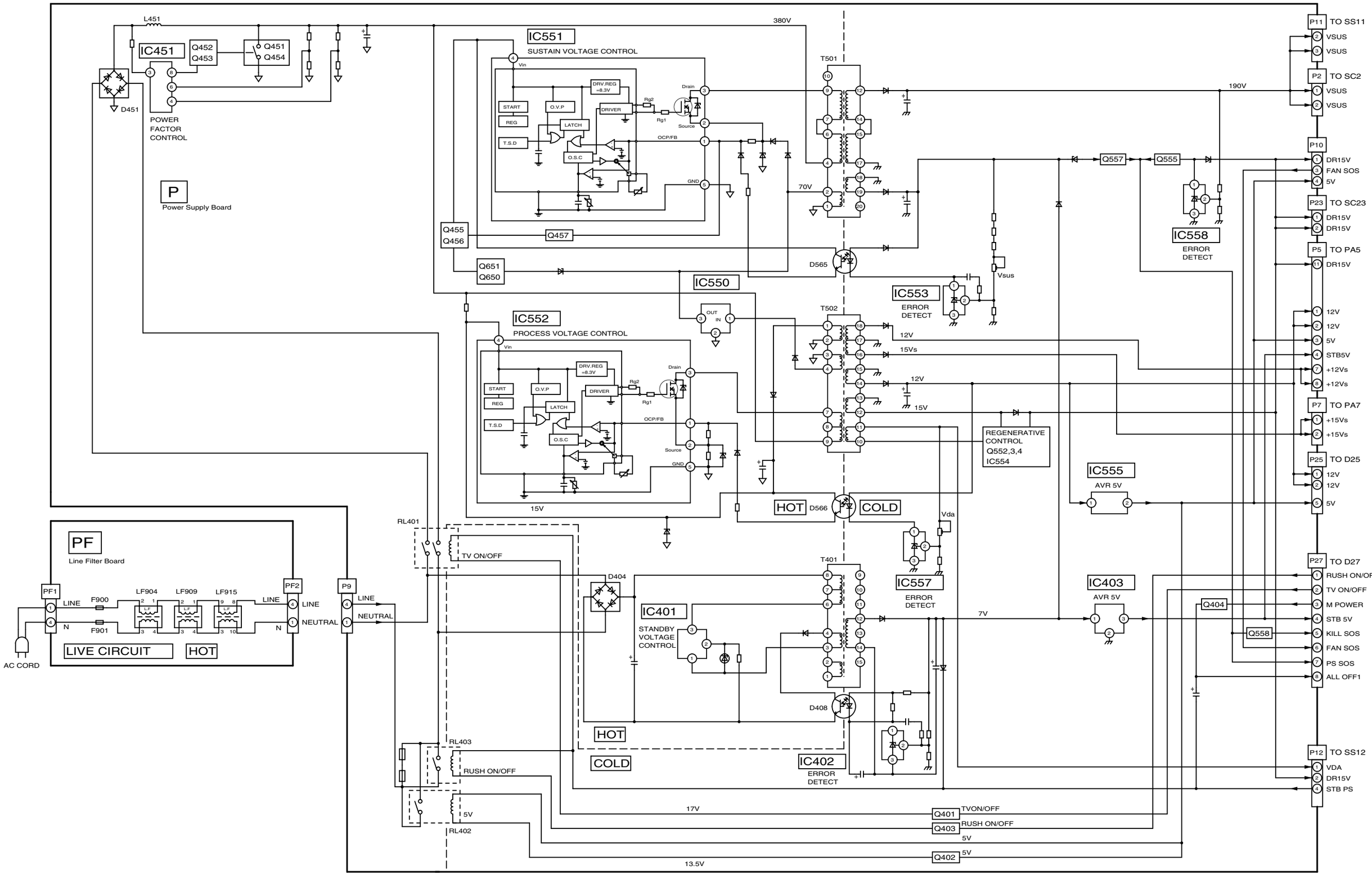


TH-42PA20B/E
H and TU-Board Block Diagram



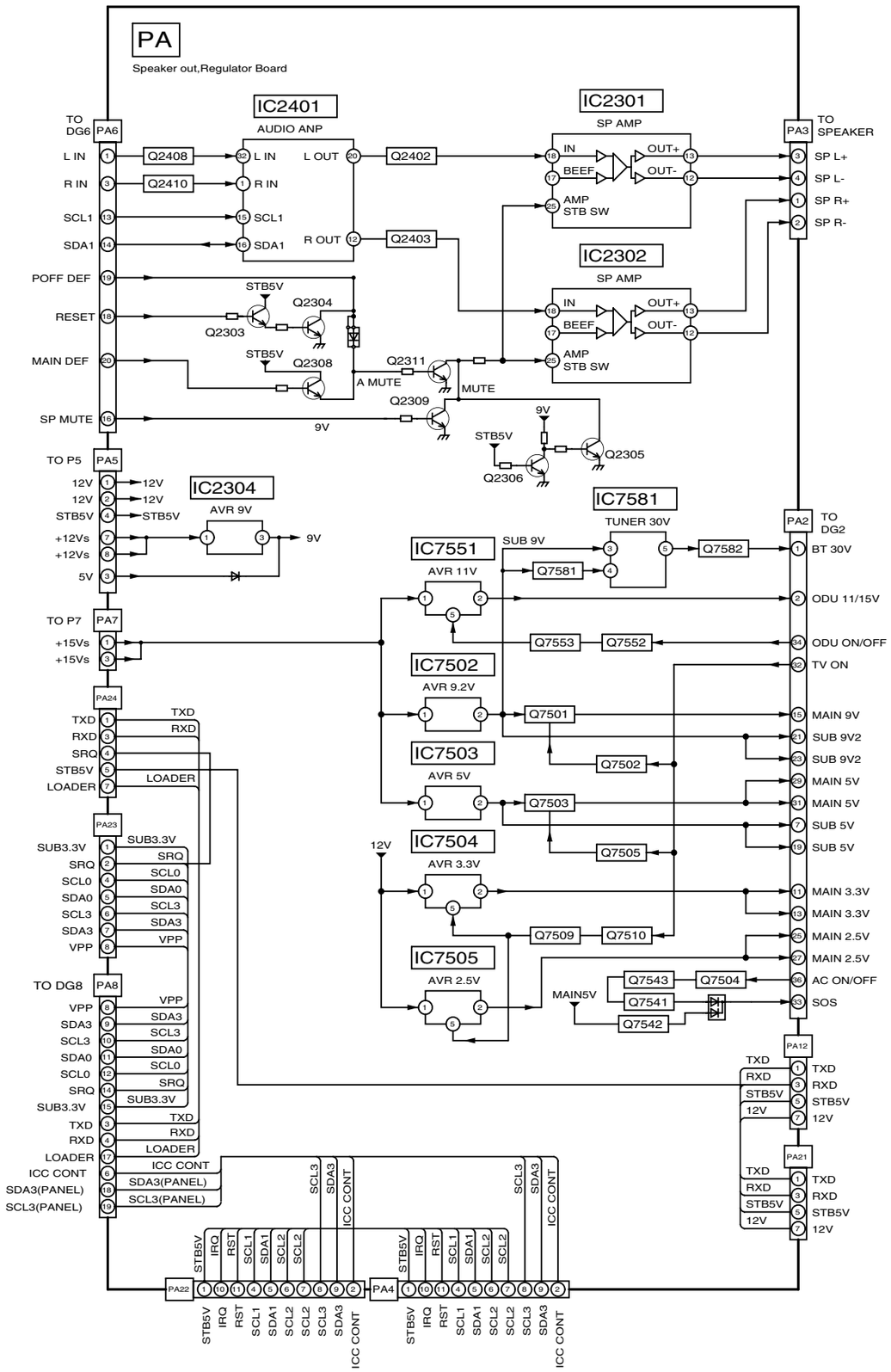
TH-42PA20B/E
Main Block Diagram

TH-42PA20B/E
Main Block Diagram



TH-42PA20B/E
P and PF-Board Block Diagram

TH-42PA20B/E
P and PF-Board Block Diagram



TH-42PA20B/E
PA-Board Block Diagram

TH-42PA20B/E
PA-Board Block Diagram

SC

Scan Drive Board

TO D20 SC20

CSH
CSL
CBK
CMH
CML
CEL
CPH
CEL2
CL
CLK
SIU
SID
SCSU
SOS1
SOS2

IC6605 BUFFER
IC6607 BUFFER
IC6606 BUFFER

IC6602 FET DRIVER
IC6601 FET DRIVER
IC6603 FET DRIVER

Q6621 CSH D6624
Q6624 CSL 1/2 Vo D6629
L6611,12
L6615,16

Q6611 Q6612 S2 CMH Q6601 Q6602 VSUS
Q6613 Q6614 S3 CML Q6605 Q6606

VBK GEN
Q6671 Q6673 Q6672 IC6604 VSUS
Q6641 Q6642

Q6603
Q6604

D6584 IC6581 Q6581
D6583 (RED LED)

D6505 PHOTO COUPLER CL
D6506 PHOTO COUPLER CLK
D6507 PHOTO COUPLER SIU
D6508 PHOTO COUPLER SID
D6501 PHOTO COUPLER CEL2
D6502 PHOTO COUPLER CPH Q6502
D6503 PHOTO COUPLER CEL Q6503
D6504 PHOTO COUPLER SCSU Q6504

IC6501 BUFFER
FCLD FCLU FCLKD FCLKU

IC6502 BUFFER
FSIU FSID PROU PROD

IC6511 FET DRIVER
Q6501 SC Q6511 VSCN
SC Q6512
Q6476 Q6477 VAD+15V

VSET REG.
Q6491 Q6492 IC6491 VSUS

IC6521 FET DRIVER
CPH VSET Q6520 Q6521
VSET INSERT Q6530 CPH
Q6522 Q6527

IC6541 FET DRIVER
CEL Q6541
VSET2 INSERT Q6551 Q6552 CEL
Q6542 Q6547

IC6542 FET DRIVER
VAD INSERT Q6553 Q6555 SCSU VAD

VSCN GEN VSET
Q6461 Q6462
Q6463 D6417
T6461 IC6456

VSCN GEN VSET
Q6451 Q6452
Q6454 Q6455
T6451 IC6451
D6454 IC6452

IC6453 15V
IC6455 5V

VAD GEN
Q6471 Q6472
Q6474 Q6475
D6474 IC6471
T6471 IC6472

D6559 D6458 Vf5 SOS
D6468 D6467 Vfo SOS
D6470 D6469 VSCAN SOS
D6479 D6480 VAD SOS

TO P2 SC2
VSUS
VSUS

TO P23 SC23
+15V
+15V

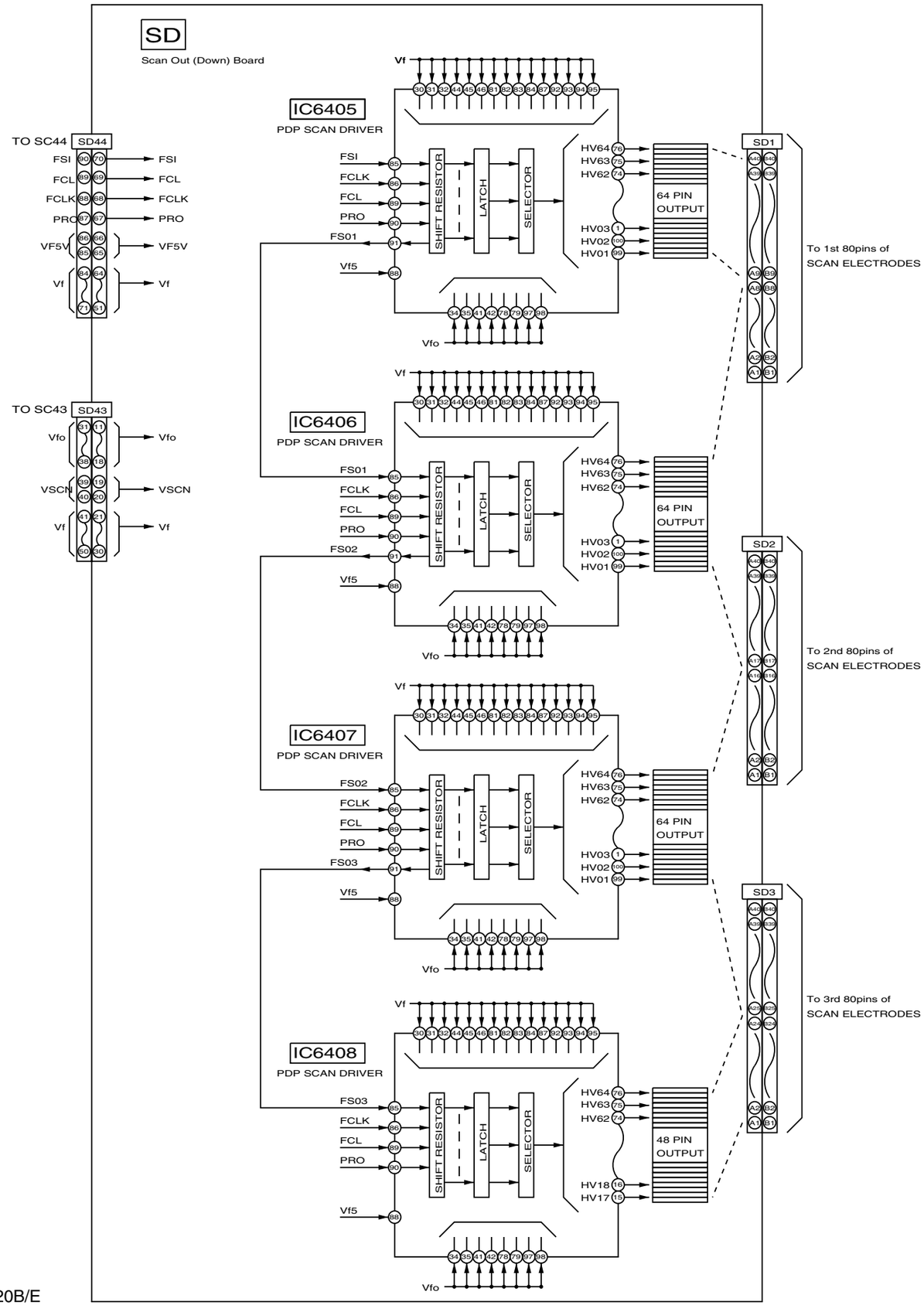
SC44 TO SD44
FSID FCLD FCLKD PROD VF5V Vf

SC43 TO SD43
Vf VSCN VSCN Vfo

SC41 TO SU41
FSIU FCLU FCLKU PROU VF5V Vf

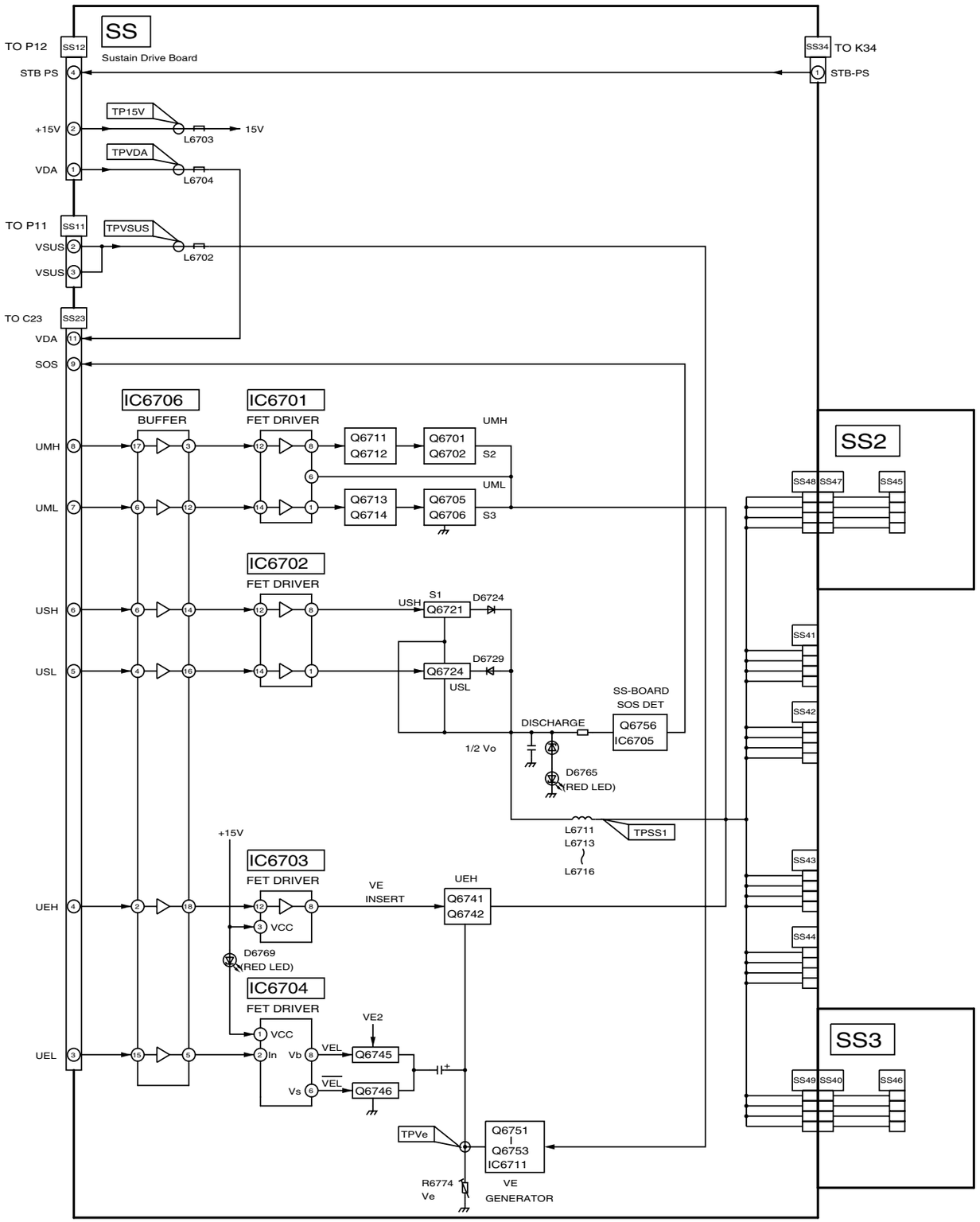
SC42 TO SU42
Vf VSCN VSCN Vfo

TH-42PA20B/E
SC-Board Block Diagram



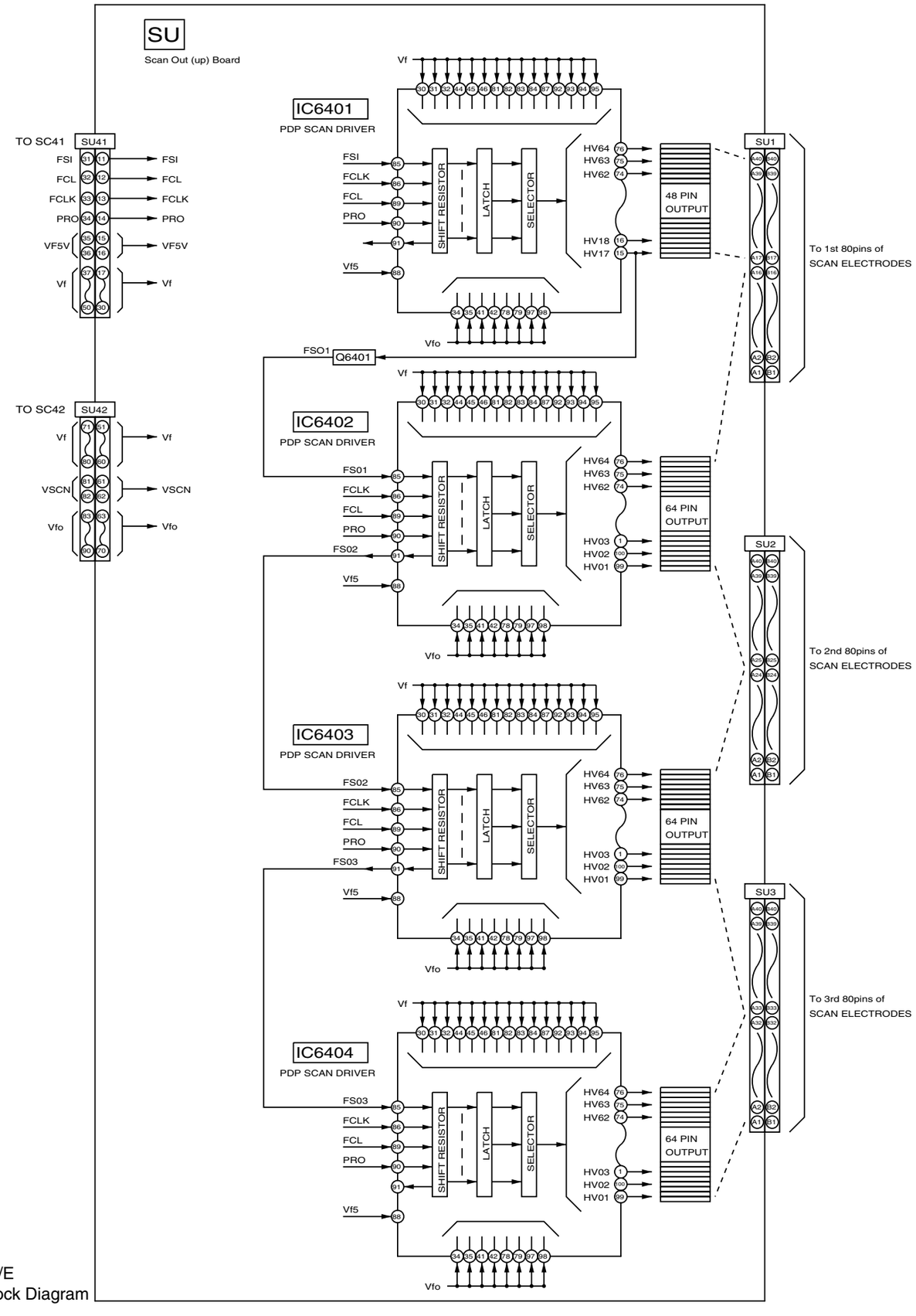
TH-42PA20B/E
SD-Board Block Diagram

TH-42PA20B/E
SD-Board Block Diagram

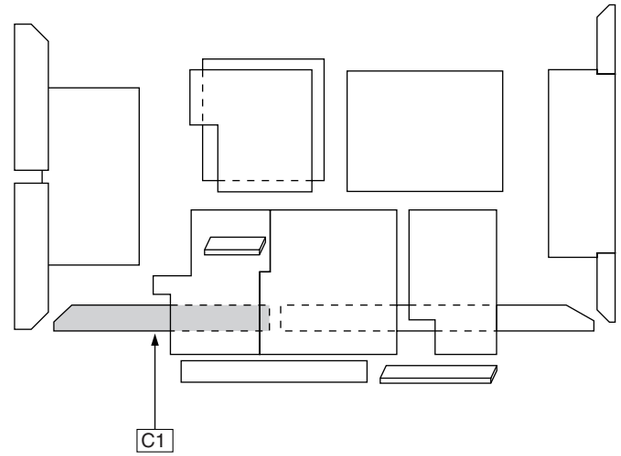


TH-42PA20B/E
SS,SS2 and SS3-Board Block Diagram

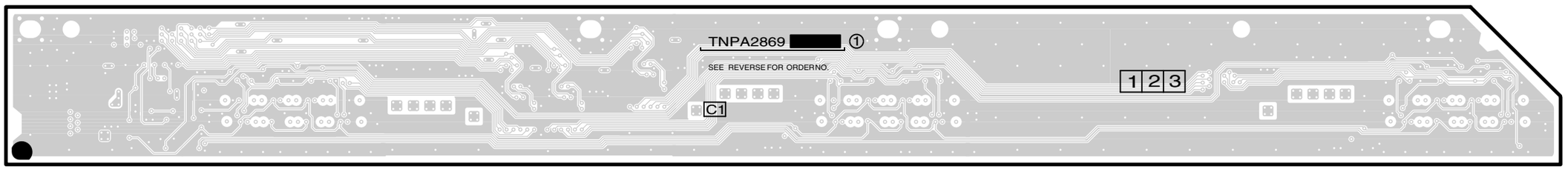
TH-42PA20B/E
SS,SS2 and SS3-Board Block Diagram



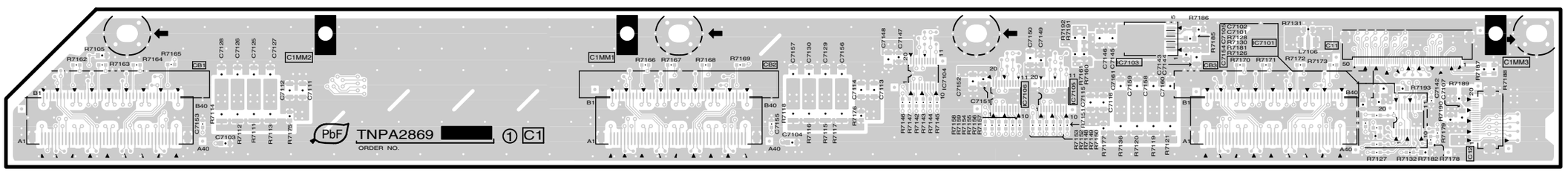
TH-42PA20B/E
SU-Board Block Diagram



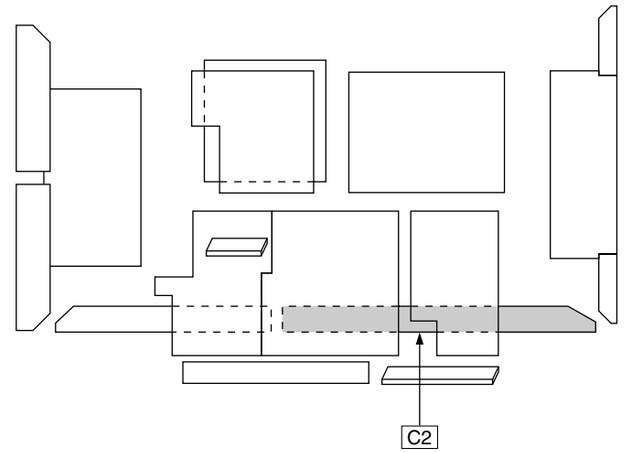
C1-BOARD(FOIL SIDE)
TNPA2869



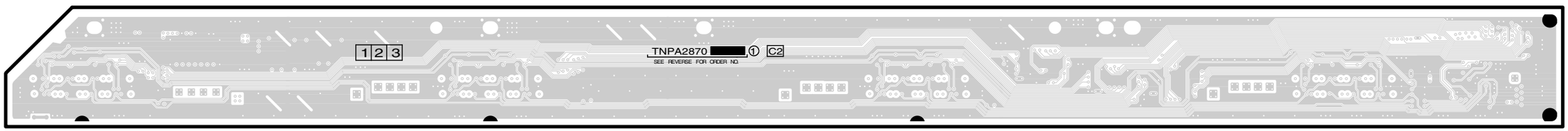
C1-BOARD(COMPONENT SIDE)
TNPA2869



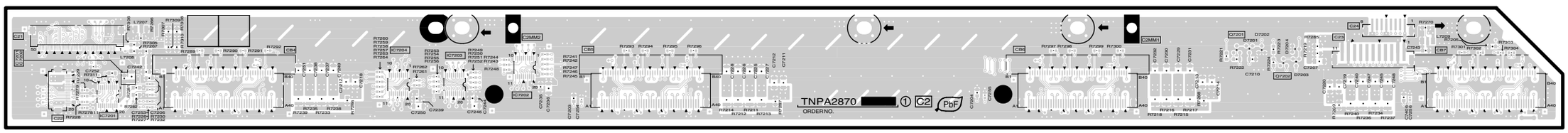
TH-42PA20B/E
C1-BOARD TNPA2869



C2-BOARD(FOIL SIDE)
TNPA2870

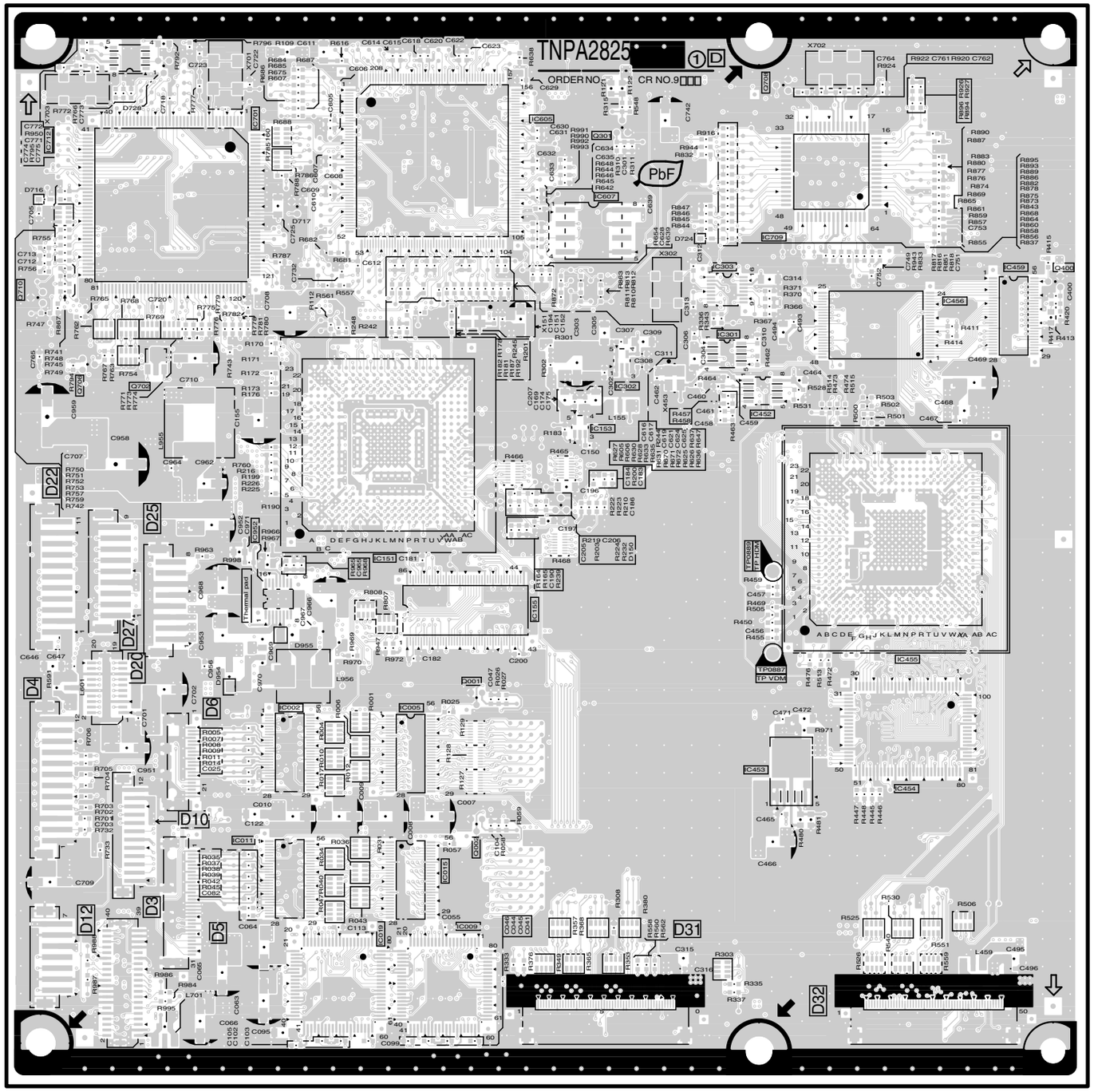


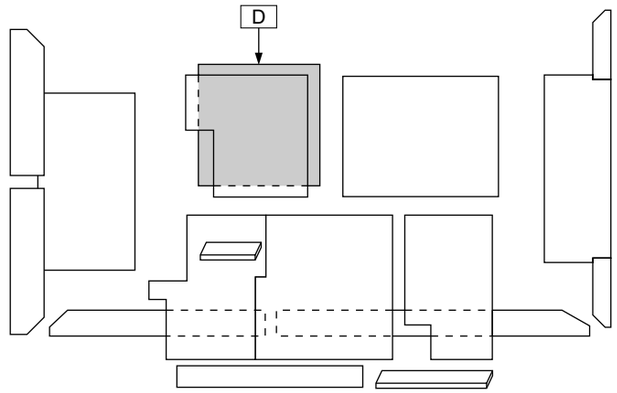
C2-BOARD(COMPONENT SIDE)
TNPA2870



TH-42PA20B/E
C2-BOARD TNPA2870

D-BOARD(COMPONENT SIDE)
TXN/D10QCS



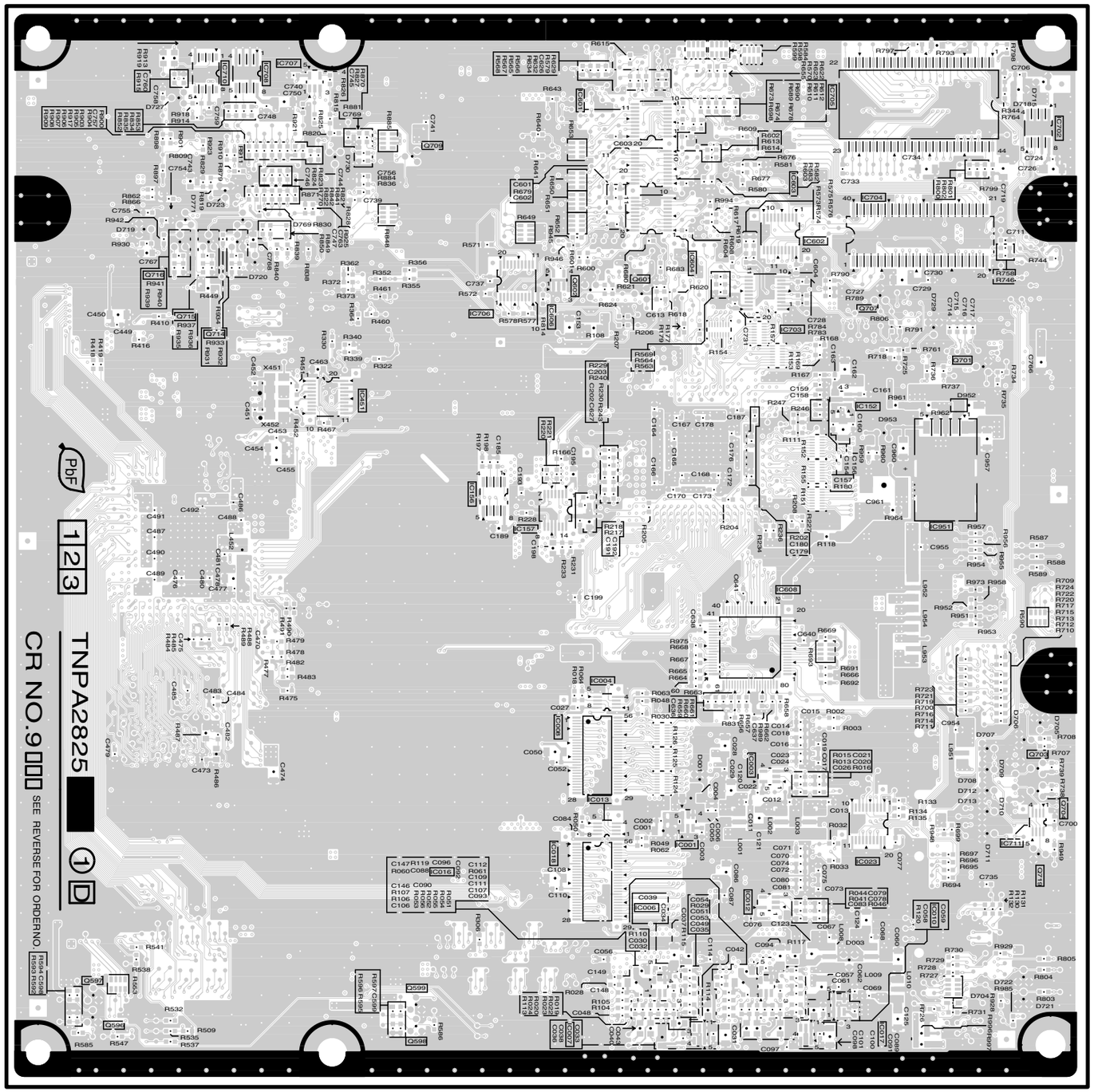


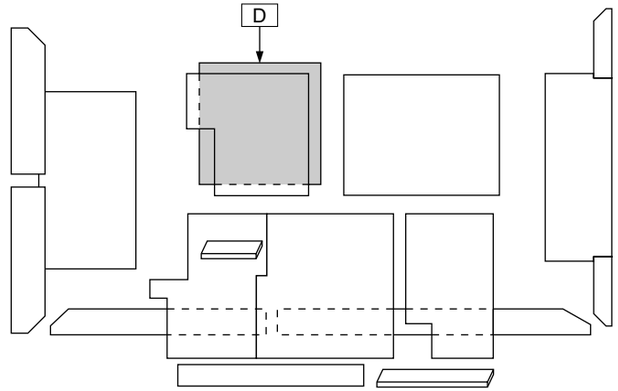
Parts Location

D-BOARD (COMPONENT SIDE)					
IC		**TRANSISTOR**		**TP**	
IC9002	B-3	Q9001	C-3	TP HDM	D-3
IC9005	C-3	Q9002	C-2	TP VDM	D-3
IC9009	C-2	Q9301	D-5	TP0887	D-3
IC9011	B-2	Q9400	F-5	TP0889	D-3
IC9015	C-2	Q9702	B-4		
IC9019	C-2	Q9706	A-4		
IC9151	C-4	Q9708	E-6		
IC9153	D-4	Q9710	A-5		
IC9155	C-3				
IC9301	D-4				
IC9302	D-4				
IC9303	D-5				
IC9452	D-4				
IC9453	E-2				
IC9454	E-3				
IC9455	E-3				
IC9456	E-5				
IC9459	F-5				
IC9605	C-5				
IC9607	D-5				
IC9701	B-5				
IC9709	E-5				
IC9712	B-6				
IC9952	B-3				

TH-42PA20B/E
D-BOARD TXN/D10QCS

D-BOARD(FOIL SIDE)
TXN/D10QCS



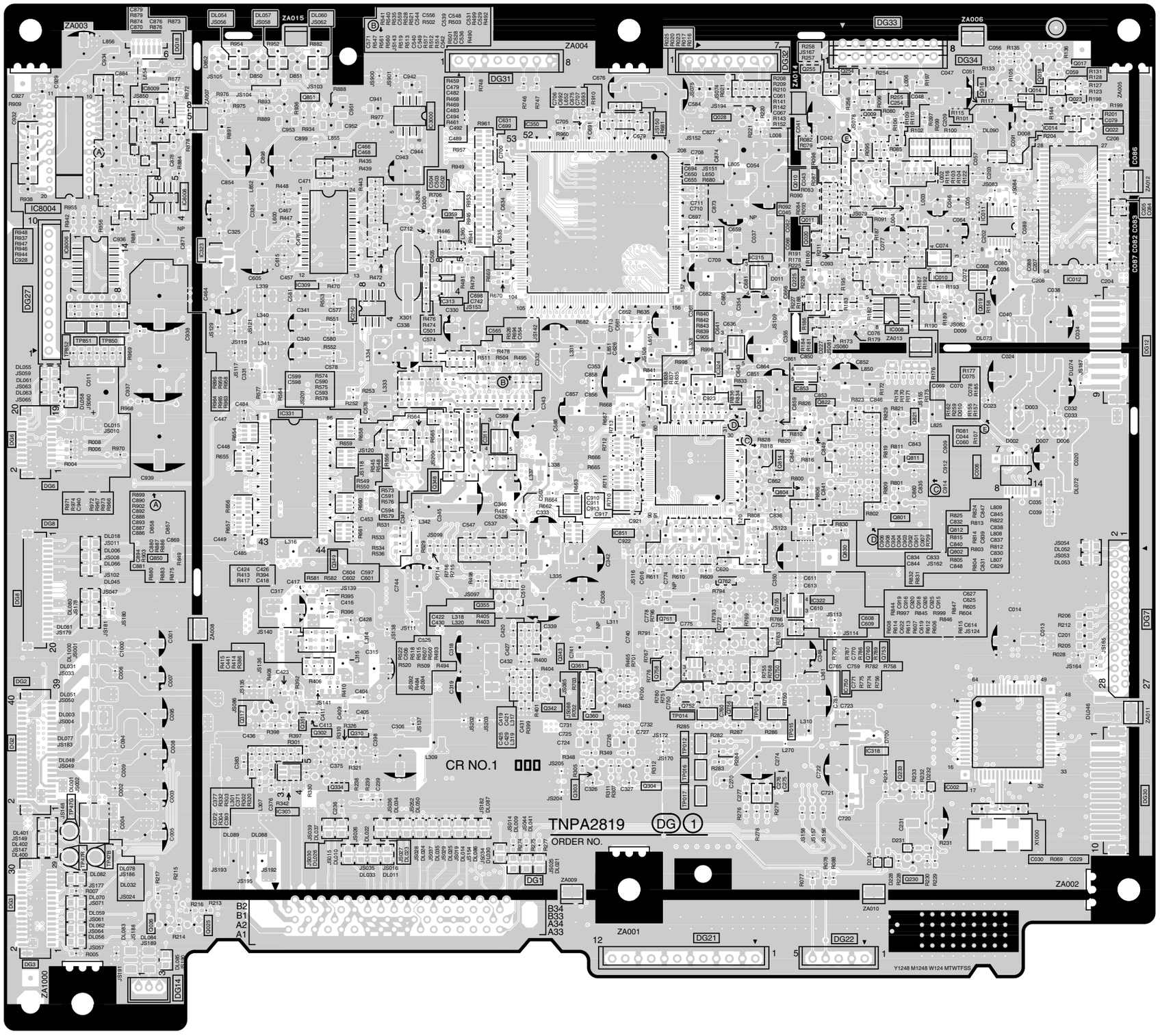


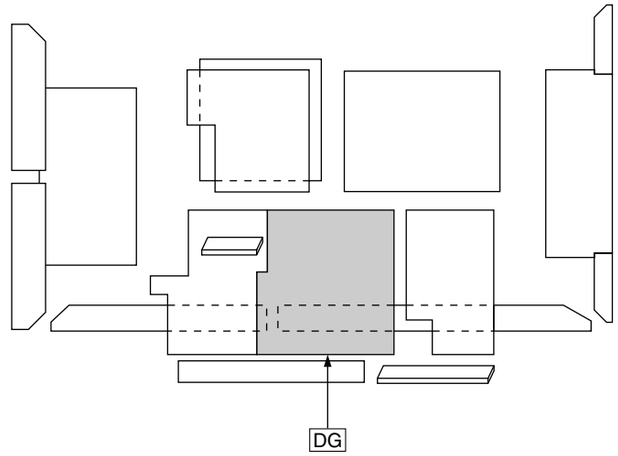
Parts Location

D-BOARD (FOIL SIDE)					
IC		IC9603	D-5	**TRANSISTOR**	
		IC9604	D-5		
IC9001	D-2	IC9606	C-5	Q9596	A-1
IC9003	D-3	IC9608	D-3	Q9597	A-2
IC9004	D-3	IC9702	F-5	Q9598	C-1
IC9006	D-2	IC9703	D-4	Q9599	C-1
IC9007	D-1	IC9704	E-5	Q9601	D-5
IC9008	D-3	IC9705	E-6	Q9602	D-5
IC9010	E-1	IC9706	C-5	Q9701	E-4
IC9012	D-2	IC9707	B-6	Q9703	F-3
IC9013	D-2	IC9708	B-6	Q9704	F-2
IC9016	C-2	IC9710	B-6	Q9707	E-5
IC9017	E-1	IC9711	F-2	Q9709	C-5
IC9018	D-2	IC9951	E-4	Q9714	B-4
IC9023	E-2			Q9715	B-5
IC9152	E-4			Q9716	B-5
IC9156	C-4			Q9719	F-2
IC9157	C-4				
IC9451	B-4				
IC9601	D-5				
IC9602	D-5				

TH-42PA20B/E
D-BOARD TXN/D10QCS

DG-BOARD(COMPONENT SIDE)
TNPA2819



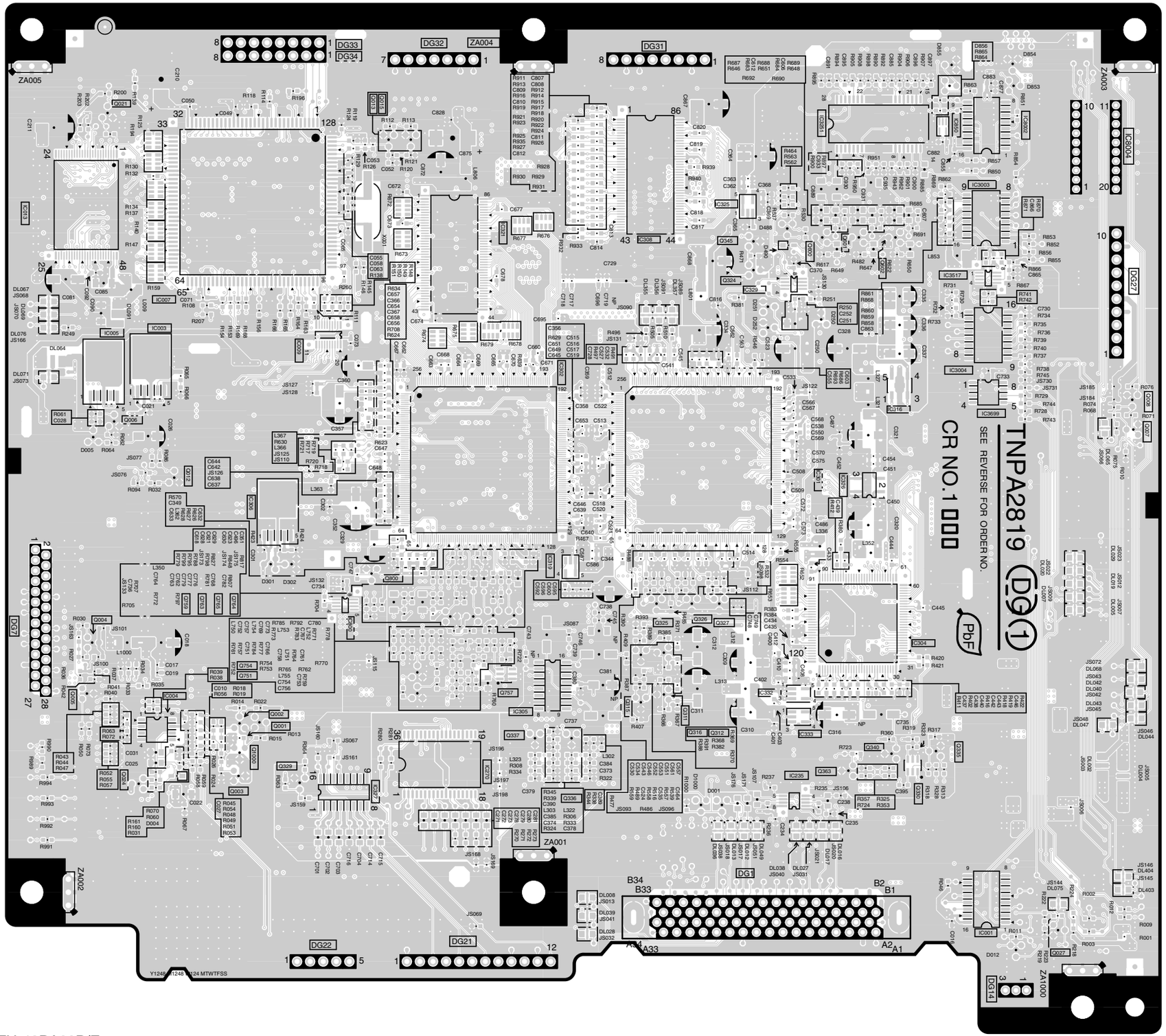


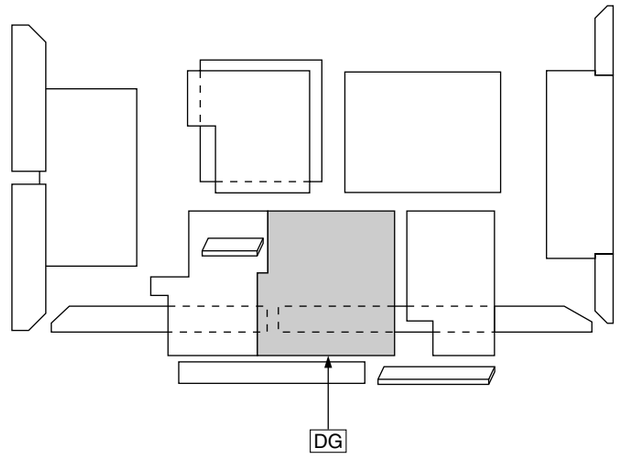
Parts Location

DG-BOARD (COMPONENT SIDE)							
IC		**TRANSISTOR**				**TP**	
IC1002	F-2	Q1009	E-6	Q1349	B-3	TP012	D-2
IC1006	F-4	Q1010	E-5	Q1351	B-2	TP013	E-2
IC1008	E-5	Q1011	E-5	Q1355	C-3	TP014	D-2
IC1010	F-5	Q1014	F-6	Q1359	C-5	TP015	E-2
IC1011	F-5	Q1016	F-6	Q1360	D-2	TP016	D-2
IC1012	F-5	Q1017	F-6	Q1361	D-3	TP017	D-2
IC1014	F-5	Q1018	F-6	Q1750	E-3	TP47B	A-2
IC1250	C-5	Q1019	F-5	Q1752	D-3	TP47G	A-2
IC1303	B-2	Q1020	E-5	Q1753	E-3	TP47R	A-2
IC1309	B-5	Q1022	F-6	Q1755	E-3	TP850	A-4
IC1311	C-4	Q1023	F-6	Q1756	E-3	TP851	A-4
IC1313	C-5	Q1025	B-1	Q1758	D-3	TP852	A-4
IC1315	E-5	Q1026	B-1	Q1760	E-3		
IC1318	E-2	Q1028	E-6	Q1761	D-3		
IC1322	E-3	Q1225	E-5	Q1762	E-3		
IC1323	B-5	Q1230	F-2	Q1801	E-4		
IC1324	E-4	Q1233	E-2	Q1802	E-4		
IC1331	B-4	Q1254	E-6	Q1804	E-4		
IC1350	D-5	Q1255	E-6	Q1811	F-4		
IC1750	E-3	Q1302	B-2	Q1812	E-4		
IC1851	D-4	Q1303	D-2	Q1814	E-4		
IC1853	E-4	Q1304	D-2	Q1821	F-4		
IC3000	C-6	Q1310	C-2	Q1822	E-4		
IC8004	A-5	Q1317	B-2	Q1824	E-4		
IC8006	A-5	Q1334	B-2	Q1830	E-3		
IC8008	B-5	Q1342	D-3	Q1850	A-5		
IC8009	B-6	Q1343	D-3	Q1851	B-6		
		Q1348	C-4				

TH-42PA20B/E
DG-BOARD TNPA2819

DG-BOARD(FOIL SIDE)
TNPA2819



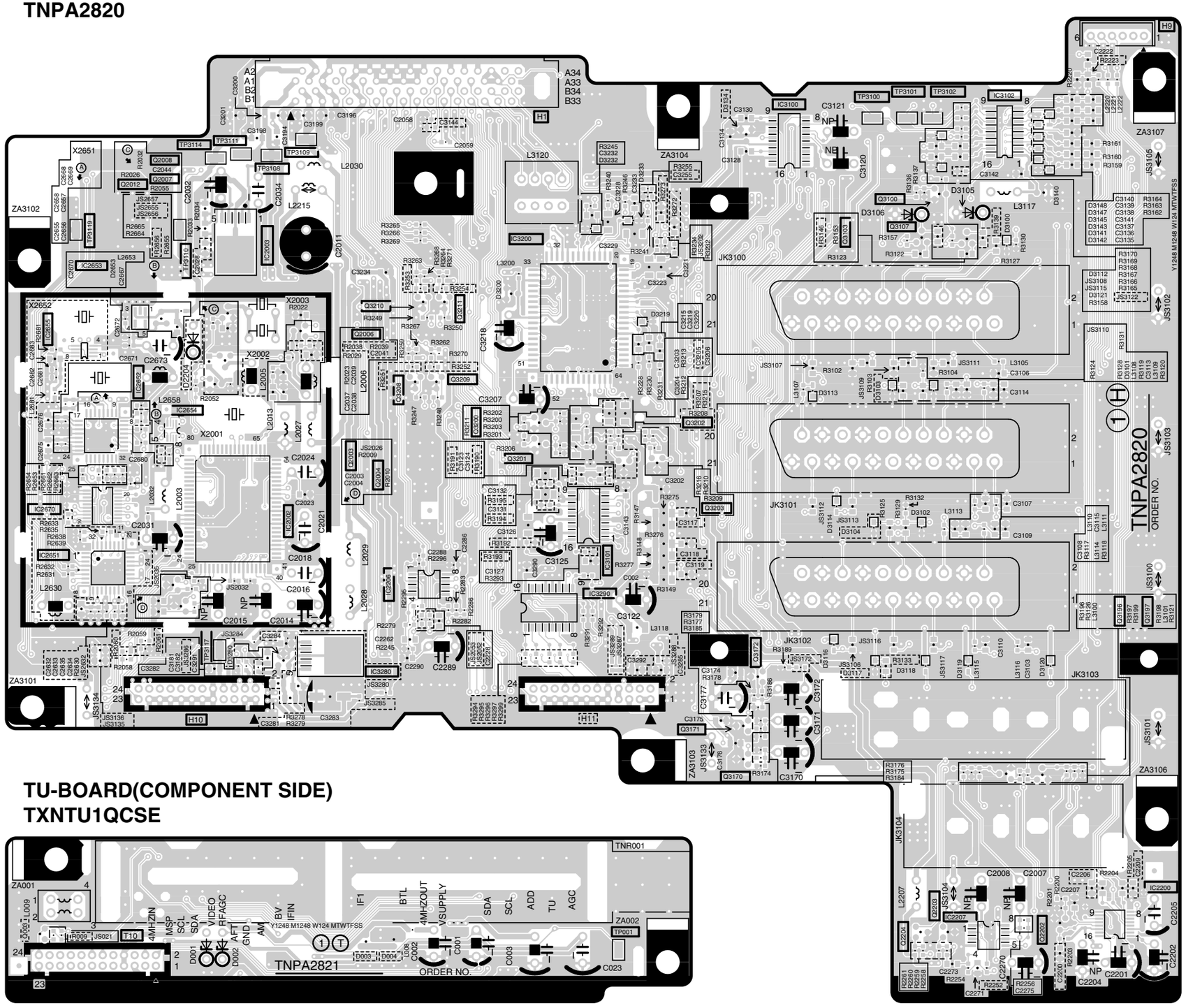


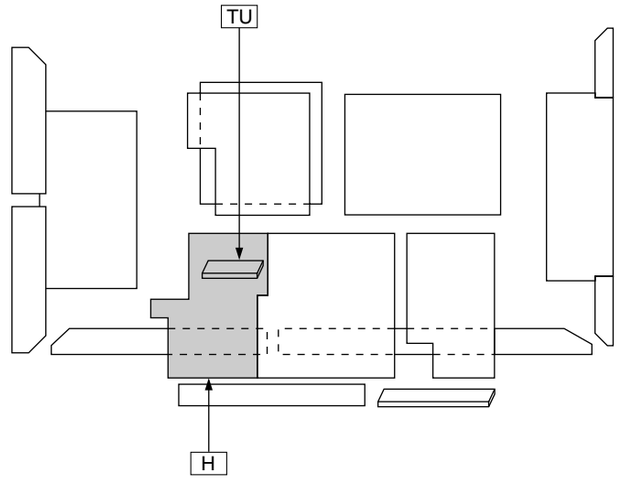
Parts Location

DG-BOARD (FOIL SIDE)					
IC		**TRANSISTOR**			
IC1001	F-1	Q1000	B-2	Q1602	E-5
IC1003	A-4	Q1001	B-2	Q1751	C-3
IC1004	B-2	Q1002	B-2	Q1754	C-3
IC1005	A-4	Q1003	B-2	Q1757	C-3
IC1007	B-5	Q1004	A-3	Q1759	C-3
IC1009	B-4	Q1005	A-3	Q1763	C-3
IC1013	A-5	Q1006	A-4	Q1764	C-3
IC1235	E-2	Q1007	G-4	Q1765	C-3
IC1270	C-2	Q1008	G-4	Q1800	C-3
IC1301	D-4	Q1012	B-4		
IC1302	C-4	Q1013	C-5		
IC1304	E-3	Q1015	C-5		
IC1305	D-3	Q1021	A-6		
IC1306	B-3	Q1024	A-2		
IC1308	D-5	Q1027	F-1		
IC1316	E-4	Q1311	D-3		
IC1319	D-3	Q1312	D-3		
IC1321	C-5	Q1315	D-2		
IC1325	E-5	Q1316	D-3		
IC1326	E-4	Q1324	E-5		
IC1327	B-2	Q1325	D-3		
IC1329	E-5	Q1326	D-3		
IC1332	E-3	Q1327	D-3		
IC1333	E-2	Q1329	B-2		
IC1800	B-3	Q1330	F-2		
IC1850	F-5	Q1335	F-2		
IC3003	F-5	Q1336	D-2		
IC3004	F-4	Q1337	C-2		
IC3251	E-6	Q1340	E-2		
IC3517	F-5	Q1345	E-5		
IC3699	F-4	Q1363	E-2		
IC8002	F-5	Q1600	E-5		
IC8004	G-5	Q1601	E-5		

TH-42PA20B/E
DG-BOARD TNPA2819

H-BOARD(COMPONENT SIDE)
TNPA2820





Parts Location

H-BOARD (COMPONENT SIDE)					
IC		**TRANSISTOR**		**TP**	
IC2002	B-4	Q2003	B-3	TP3100	E-6
IC2003	B-5	Q2004	B-3	TP3101	E-6
IC2200	F-1	Q2006	C-4	TP3102	E-6
IC2206	C-3	Q2007	B-4	TP3108	B-5
IC2207	F-1	Q2008	B-5	TP3109	B-5
IC2651	A-3	Q2012	B-4	TP3110	B-5
IC2652	A-4	Q2202	F-1	TP3111	B-5
IC2653	A-5	Q2203	F-1	TP3114	B-5
IC2654	B-4	Q2204	E-1	TP3117	B-3
IC2655	A-4	Q3100	E-5	TP3119	A-5
IC2670	A-4	Q3103	F-5		
IC3100	E-6	Q3107	E-5		
IC3101	D-4	Q3170	D-2		
IC3102	F-6	Q3171	D-2		
IC3200	D-5	Q3172	E-3		
IC3280	B-3	Q3196	F-2		
IC3290	C-3	Q3197	F-2		
		Q3200	C-4		
		Q3201	C-4		
		Q3202	D-4		
		Q3203	D-4		
		Q3208	C-4		
		Q3209	C-4		
		Q3210	C-5		
		Q3211	C-5		

TU-BOARD(COMPONENT SIDE)
TXNTU1QCSE

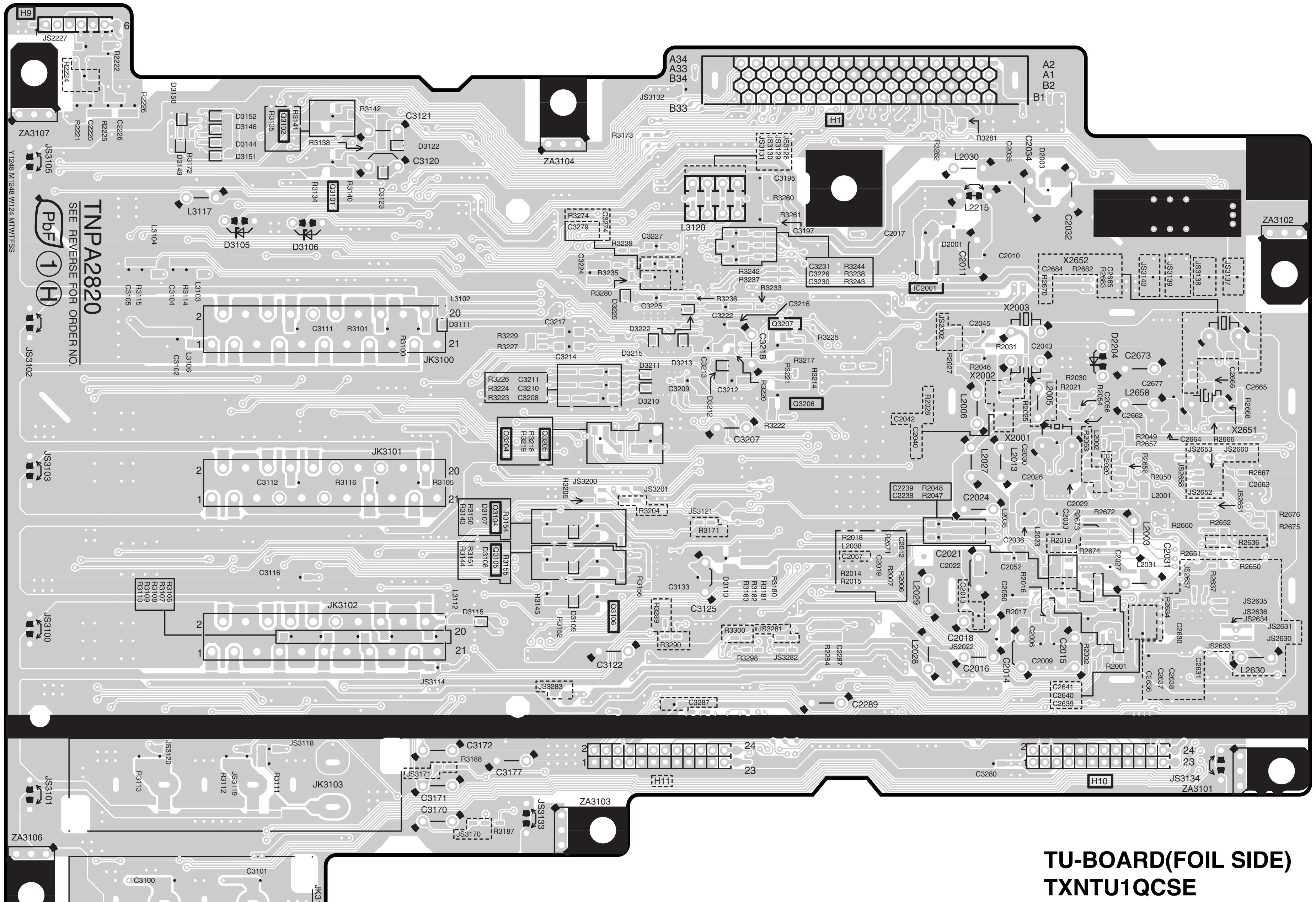
Parts Location

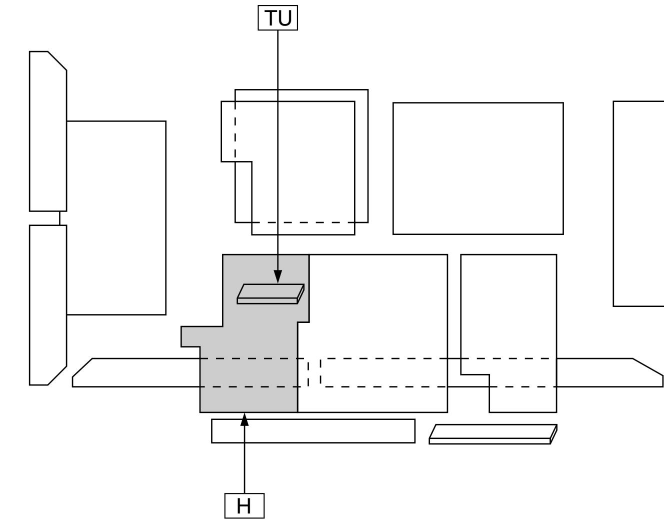
TU-BOARD (COMPONENT SIDE)			
TRANSISTOR		**TP**	
Q003	A-1	TP001	D-1

TH-42PA20B/E
H-BOARD TNPA2820
TU-BOARD TXNTU1QCSE

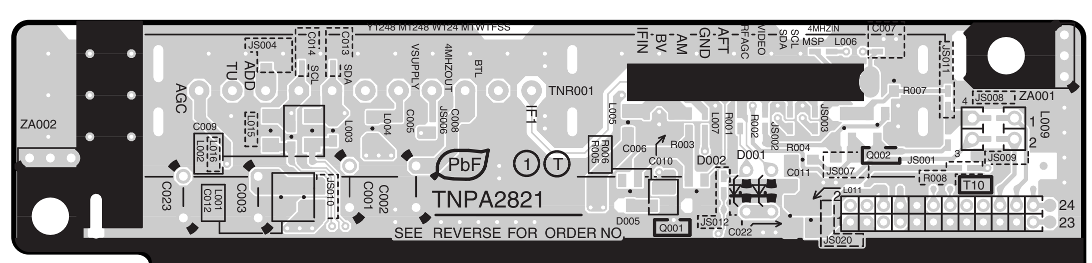
TH-42PA20B/E
H-BOARD TNPA2820
TU-BOARD TXNTU1QCSE

H-BOARD(FOIL SIDE)
TNPA2820





TU-BOARD(FOIL SIDE)
TXNTU1QCSE



Parts Location

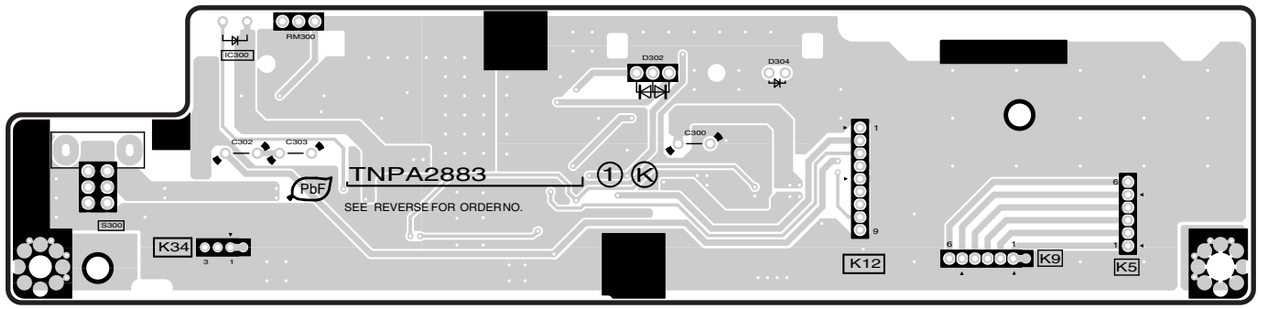
H-BOARD (FOIL SIDE)			
IC		TRANSISTOR	
IC2001	E-5	Q3101	B-5
		Q3102	B-6
		Q3104	D-4
		Q3105	D-3
		Q3106	D-3
		Q3204	D-4
		Q3205	D-4
		Q3206	D-4
		Q3207	D-5

Parts Location

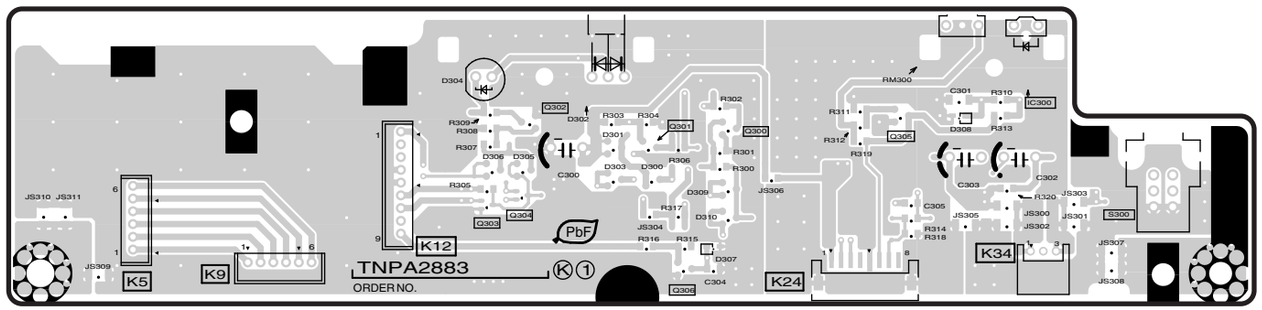
TU-BOARD (FOIL SIDE)	
TRANSISTOR	
Q001	E-1
Q002	F-1

TH-42PA20B/E
H-BOARD TNPA2820
TU-BOARD TXNTU1QCSE

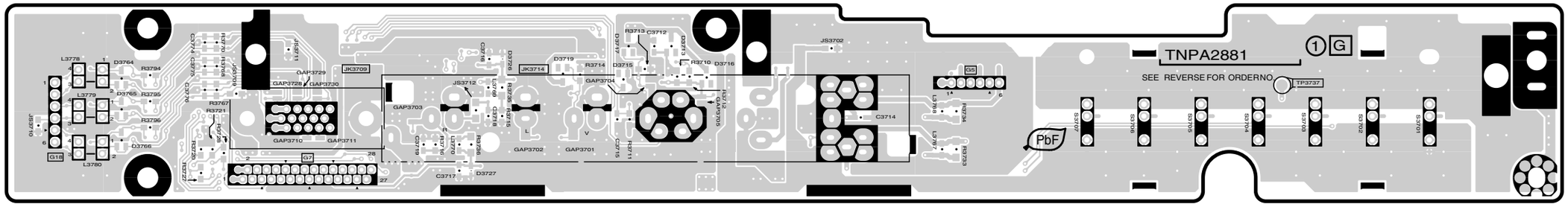
K-BOARD(FOIL SIDE)
TXN/K1QCSU



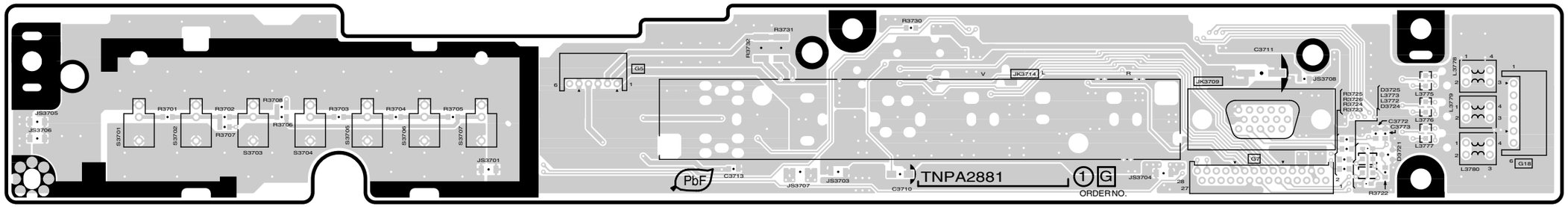
K-BOARD(COMPONENT SIDE)
TXN/K1QCSU

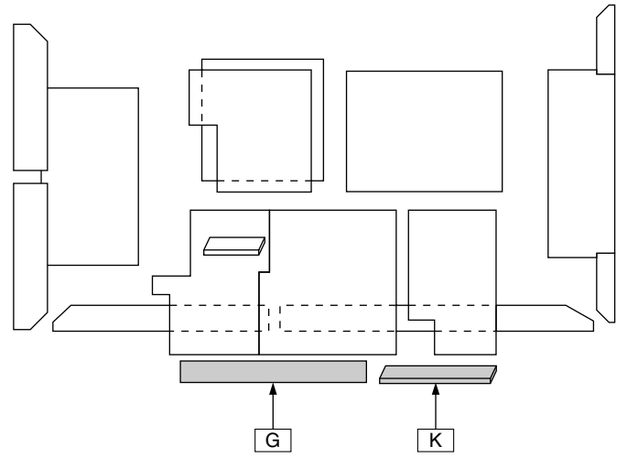


G-BOARD(FOIL SIDE)
TXN/G1QCSU



G-BOARD(COMPONENT SIDE)
TXN/G1QCSU





Parts Location

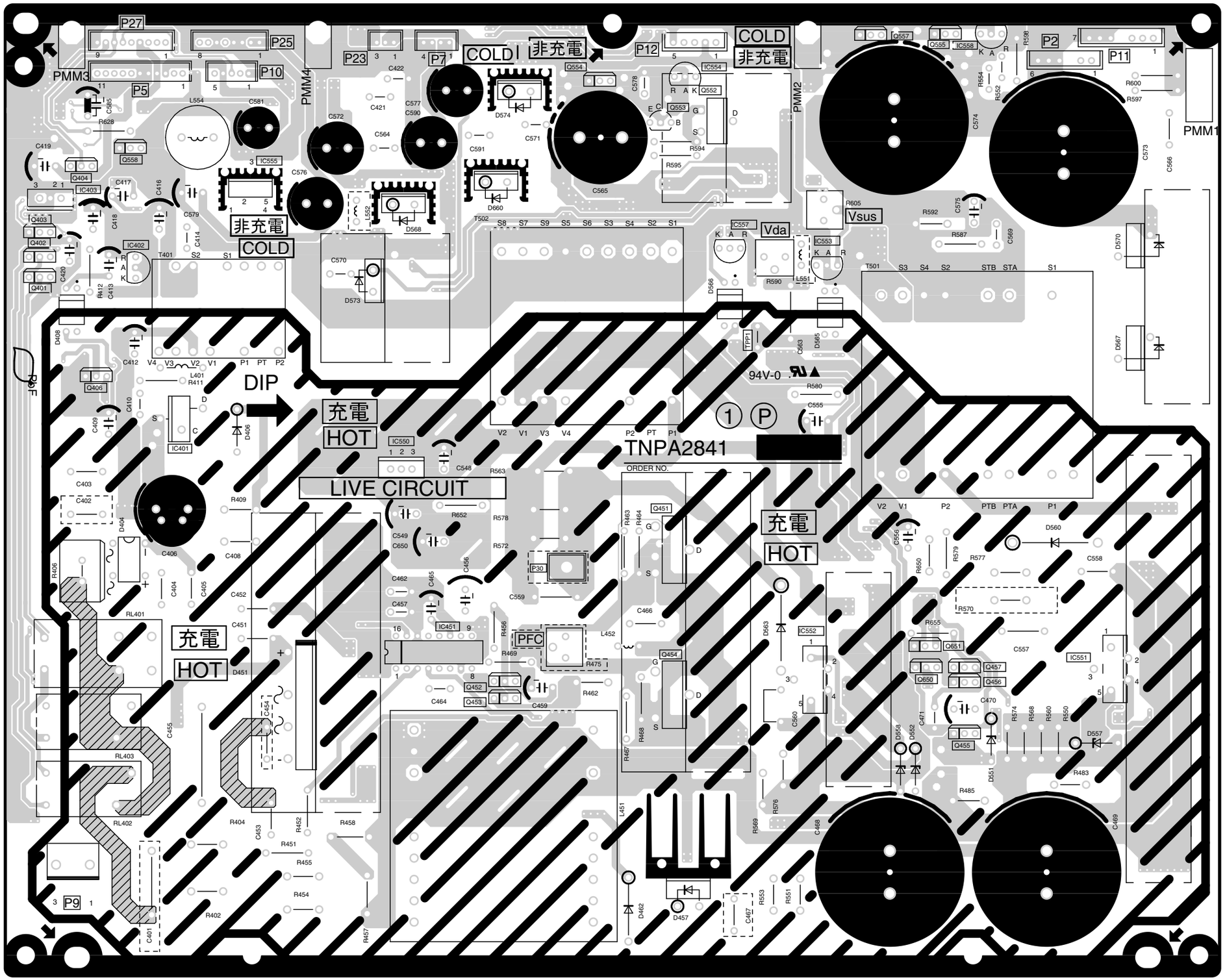
K-BOARD (FOIL SIDE)			
IC			
IC300	B-6		

Parts Location

K-BOARD (COMPONENT SIDE)			
IC		**TRANSISTOR**	
IC300	D-4	Q300	C-4
		Q301	C-4
		Q302	C-4
		Q303	C-4
		Q304	C-4
		Q305	D-4
		Q306	C-4

TH-42PA20B/E
G-BOARD TXN/G1QCSU
K-BOARD TXN/K1QCSU

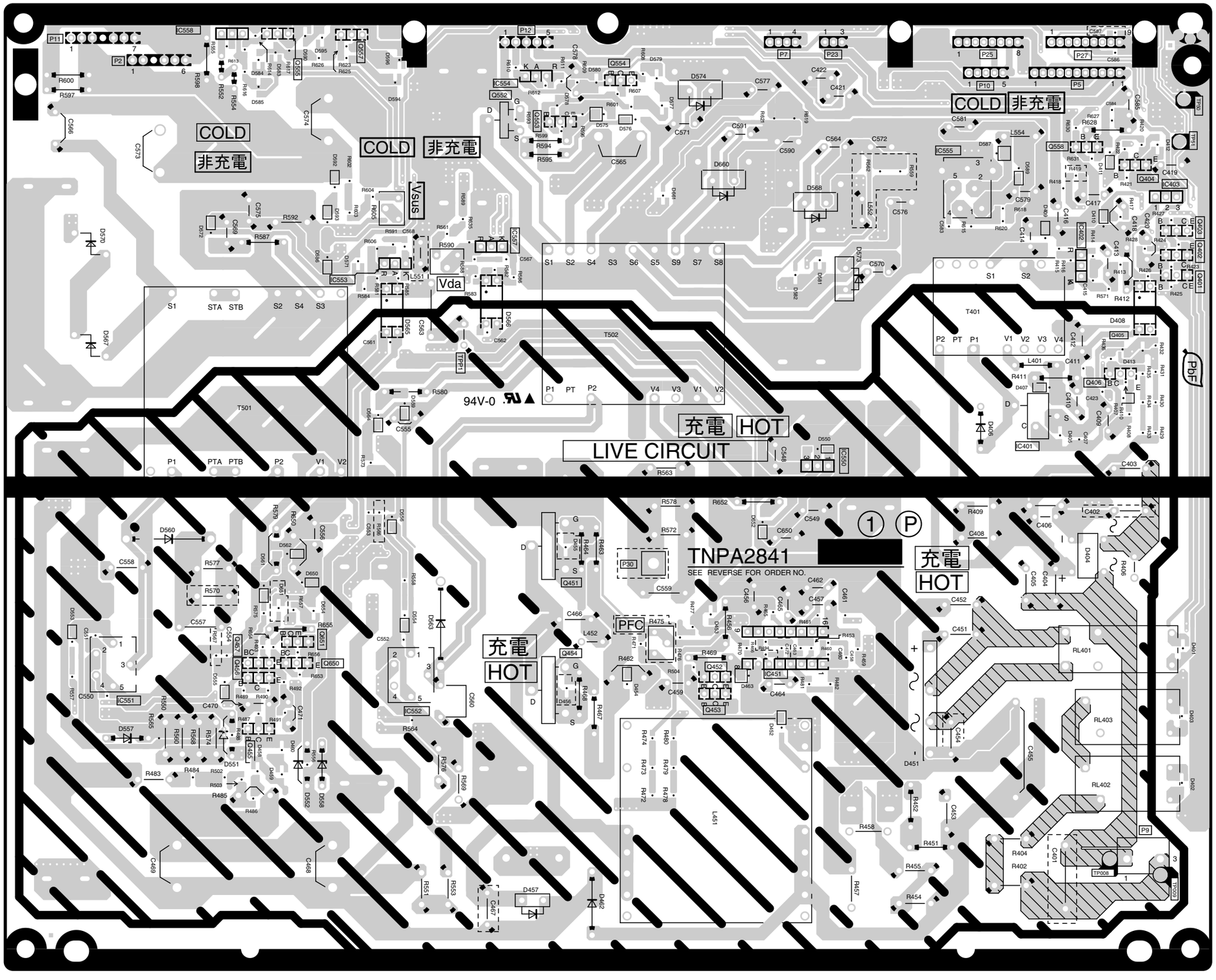
P-BOARD(COMPONENT SIDE)
TNPA2841



TH-42PA20B/E
P-BOARD TNPA2841

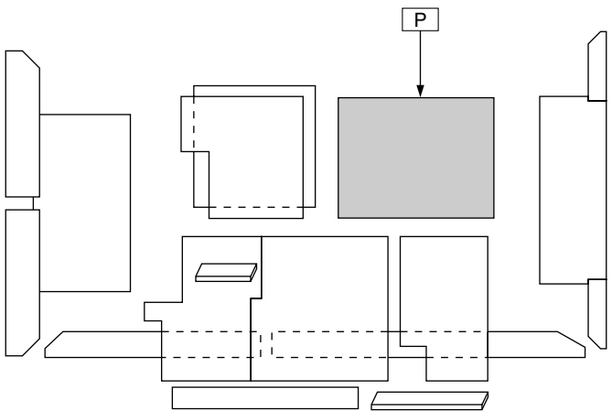
TH-42PA20B/E
P-BOARD TNPA2841

P-BOARD(FOIL SIDE)
TNPA2841



TH-42PA20B/E
P-BOARD TNPA2841

TH-42PA20B/E
P-BOARD TNPA2841



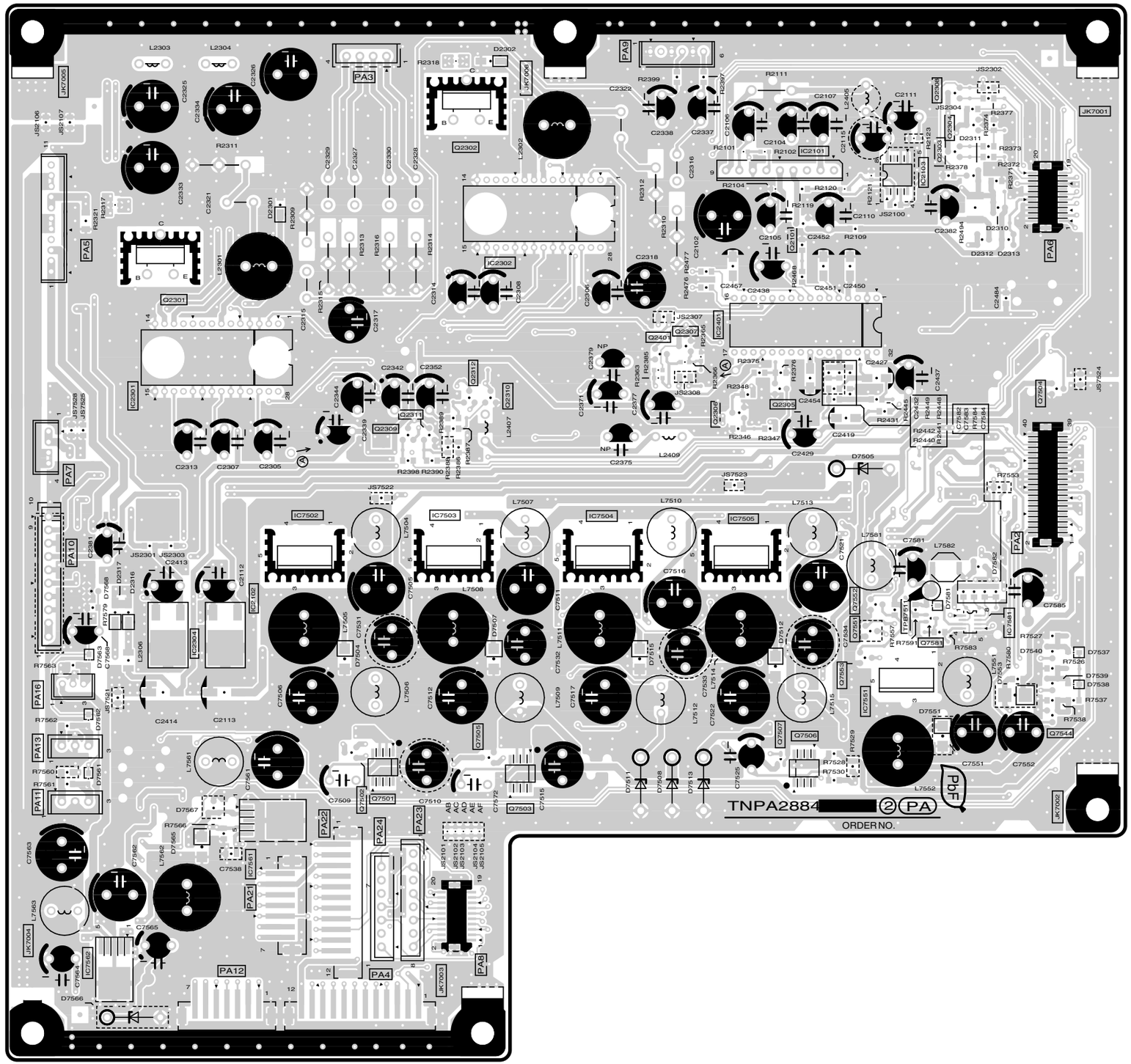
Parts Location

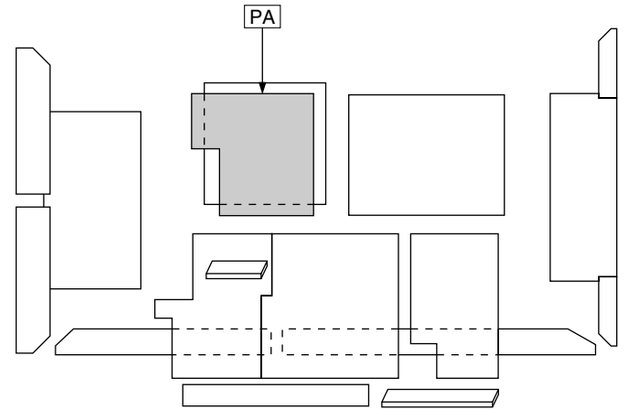
P-BOARD (FOIL SIDE)					
IC		**TRANSISTOR**		**TP**	
IC401	G-4	Q401	H-5	TP008	H-1
IC402	H-5	Q402	H-5	TP009	H-1
IC403	H-5	Q403	H-5	TP50	H-6
IC451	F-3	Q404	H-5	TP61	H-5
IC550	F-4	Q405	H-4	TPP1	D-4
IC551	B-3	Q406	H-4		
IC552	D-2	Q451	E-3		
IC553	D-5	Q452	F-2		
IC554	E-6	Q453	F-2		
IC555	G-5	Q454	E-2		
IC557	D-5	Q455	C-2		
IC558	C-6	Q456	C-3		
		Q457	C-3		
		Q552	D-6		
		Q553	E-6		
		Q554	E-6		
		Q555	C-6		
		Q557	D-6		
		Q558	H-5		
		Q650	C-3		
		Q651	C-3		

Parts Location

P-BOARD (COMPONENT SIDE)					
IC		**TRANSISTOR**		**TP**	
IC401	C-4	Q401	B-5	TPP1	F-4
IC402	B-5	Q402	B-5		
IC403	B-5	Q403	B-5		
IC451	D-3	Q404	B-5		
IC550	D-4	Q406	B-4		
IC551	H-3	Q451	E-3		
IC552	F-3	Q452	D-2		
IC553	F-5	Q453	D-2		
IC554	E-6	Q454	E-2		
IC555	C-5	Q455	G-2		
IC557	F-5	Q456	G-2		
IC558	G-6	Q457	G-3		
		Q552	F-6		
		Q553	E-6		
		Q554	E-6		
		Q555	G-6		
		Q557	G-6		
		Q558	B-5		
		Q650	G-2		
		Q651	G-3		

PA-BOARD(COMPONENT SIDE)
TXNPA1QCSE



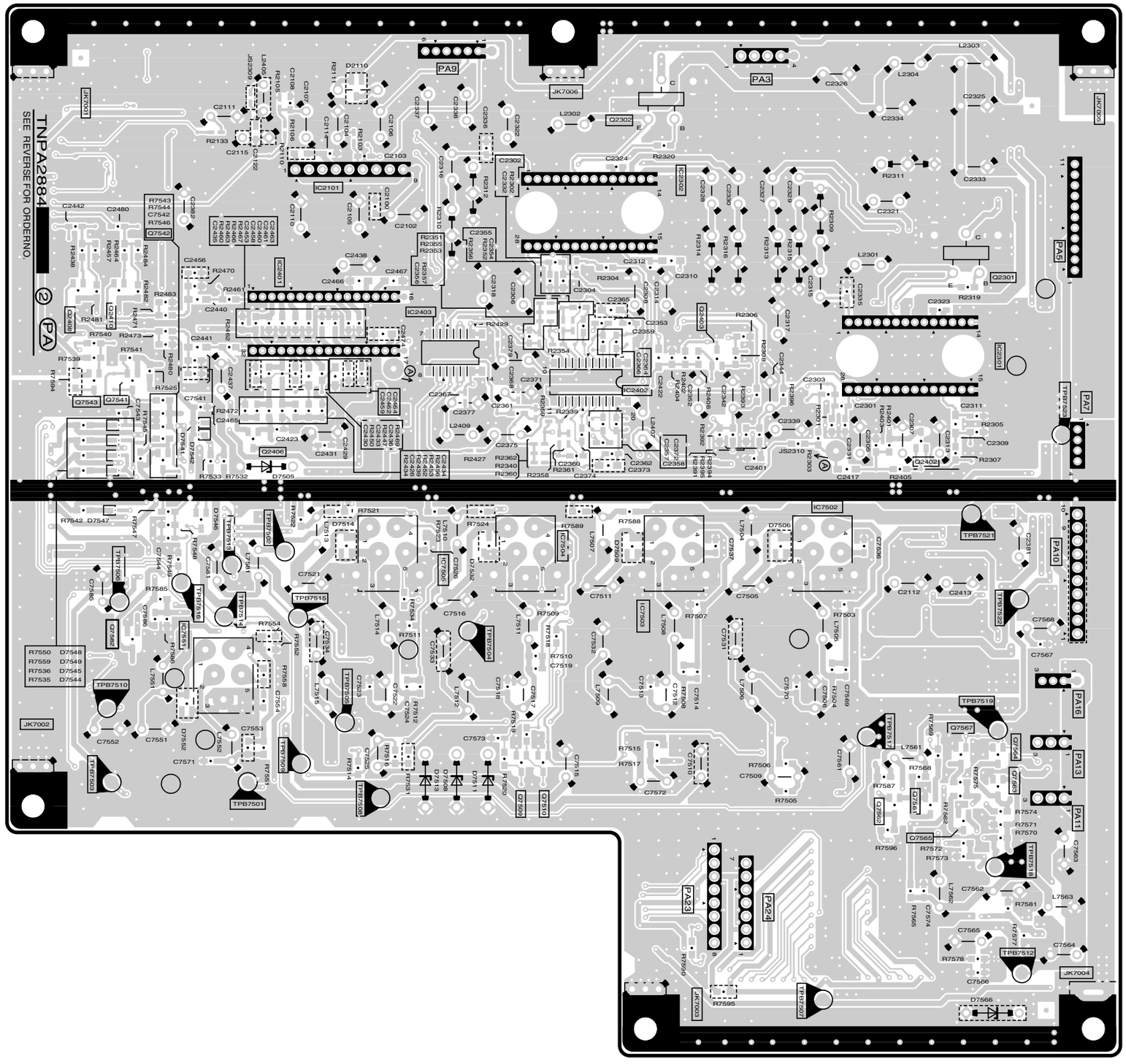


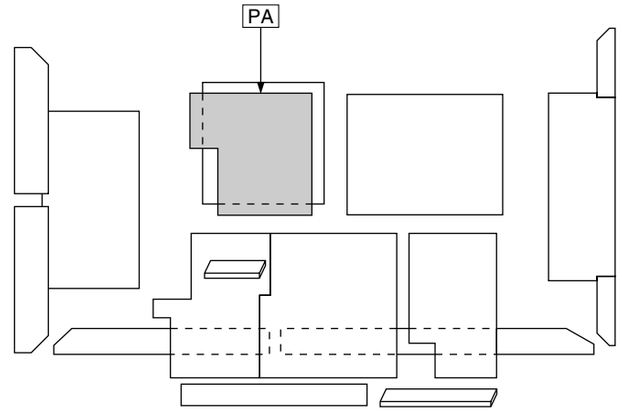
Parts Location

PA-BOARD (COMPONENT SIDE)					
IC		**TRANSISTOR**		**TP**	
IC2101	E-5	Q2101	E-5	TPB7511	F-3
IC2102	B-3	Q2301	B-5		
IC2103	F-5	Q2302	D-5		
IC2301	B-4	Q2303	F-5		
IC2302	D-5	Q2304	F-5		
IC2304	B-3	Q2305	E-4		
IC2401	E-4	Q2306	E-4		
IC7502	C-3	Q2307	E-4		
IC7503	C-3	Q2308	F-5		
IC7504	D-3	Q2309	C-4		
IC7505	E-3	Q2310	D-4		
IC7551	F-3	Q2311	C-4		
IC7561	B-2	Q2312	D-4		
IC7562	B-1	Q2401	E-4		
IC7581	F-3	Q7501	C-2		
		Q7502	C-2		
		Q7503	D-2		
		Q7504	F-4		
		Q7505	D-2		
		Q7506	E-2		
		Q7507	E-2		
		Q7544	F-2		
		Q7551	E-3		
		Q7552	E-3		
		Q7553	E-3		
		Q7581	F-3		

TH-42PA20B/E
PA-BOARD TXNPA1QCSE

PA-BOARD(FOIL SIDE)
TXNPA1QCSE



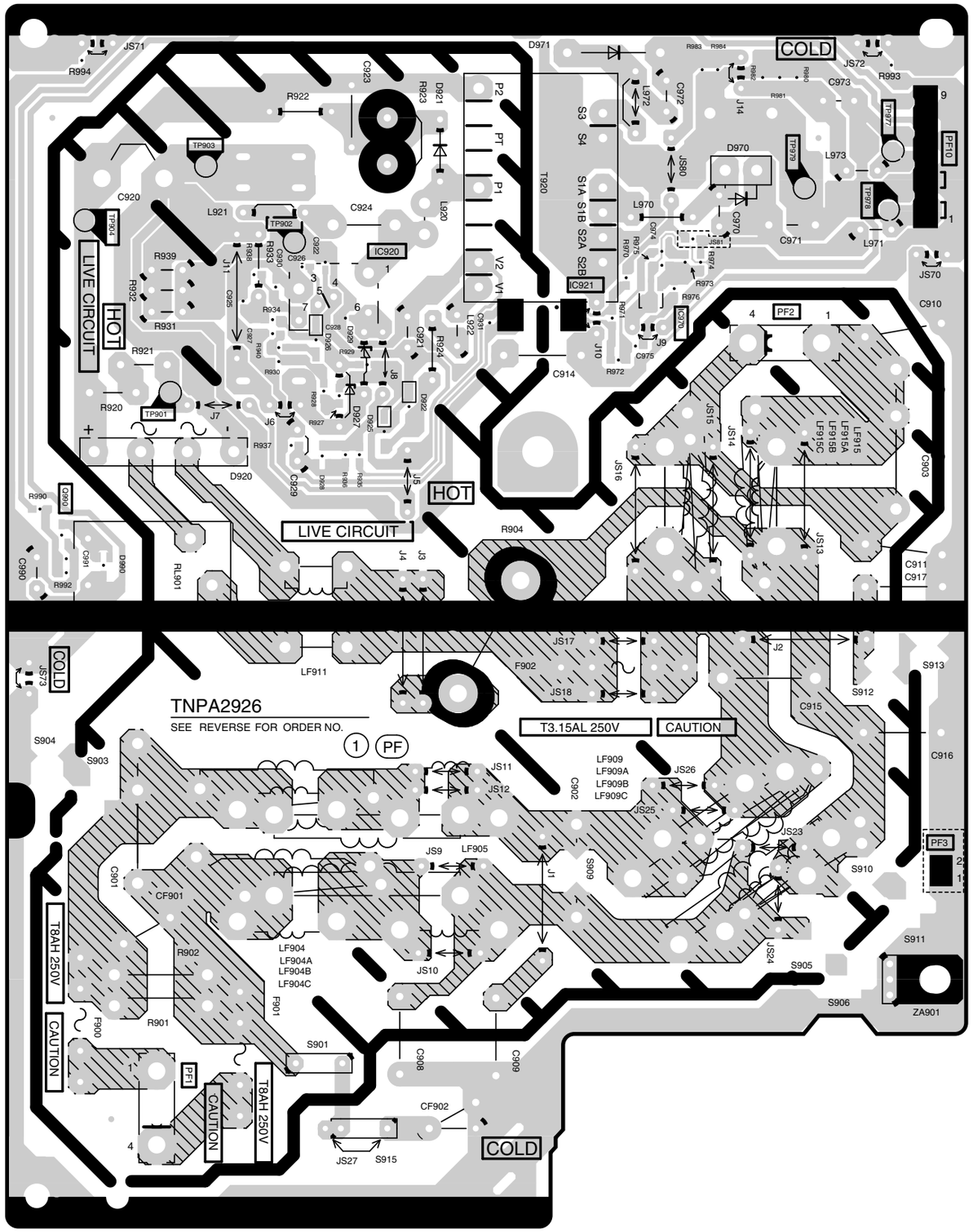


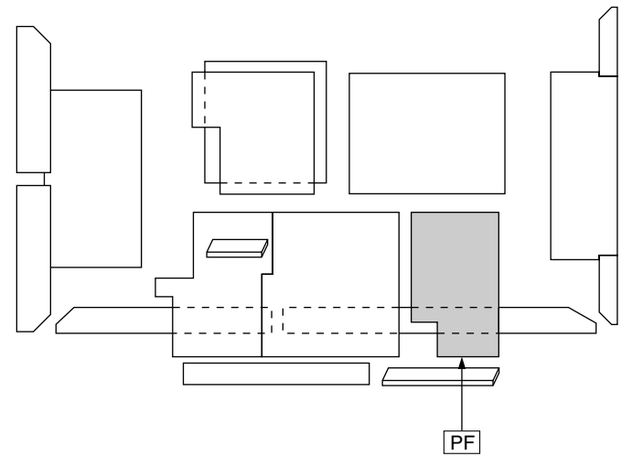
Parts Location

PA-BOARD (FOIL SIDE)					
IC		**TRANSISTOR**		**TP**	
IC2101	C-5	Q2301	F-5	TPB7501	B-2
IC2301	F-4	Q2302	D-5	TPB7502	C-3
IC2302	D-5	Q2402	F-4	TPB7503	B-2
IC2401	C-5	Q2403	E-4	TPB7504	C-3
IC2402	D-4	Q2406	C-4	TPB7505	C-2
IC2403	C-4	Q2408	B-4	TPB7506	B-3
IC7502	E-3	Q2410	B-4	TPB7507	E-1
IC7503	D-3	Q7509	D-2	TPB7508	C-2
IC7504	D-3	Q7510	D-2	TPB7509	C-2
IC7505	C-3	Q7541	B-4	TPB7510	B-2
IC7551	B-3	Q7542	B-4	TPB7512	F-1
		Q7543	B-4	TPB7513	B-3
		Q7561	F-2	TPB7514	B-3
		Q7562	F-2	TPB7515	C-3
		Q7563	F-2	TPB7516	B-3
		Q7564	F-2	TPB7517	F-2
		Q7565	F-2	TPB7518	F-2
		Q7567	F-2	TPB7519	F-2
		Q7582	B-3	TPB7521	F-3
				TPB7522	F-3
				TPB7523	F-4

TH-42PA20B/E
PA-BOARD TXNPA1QCSE

PF-BOARD
TXNPF1QCSE



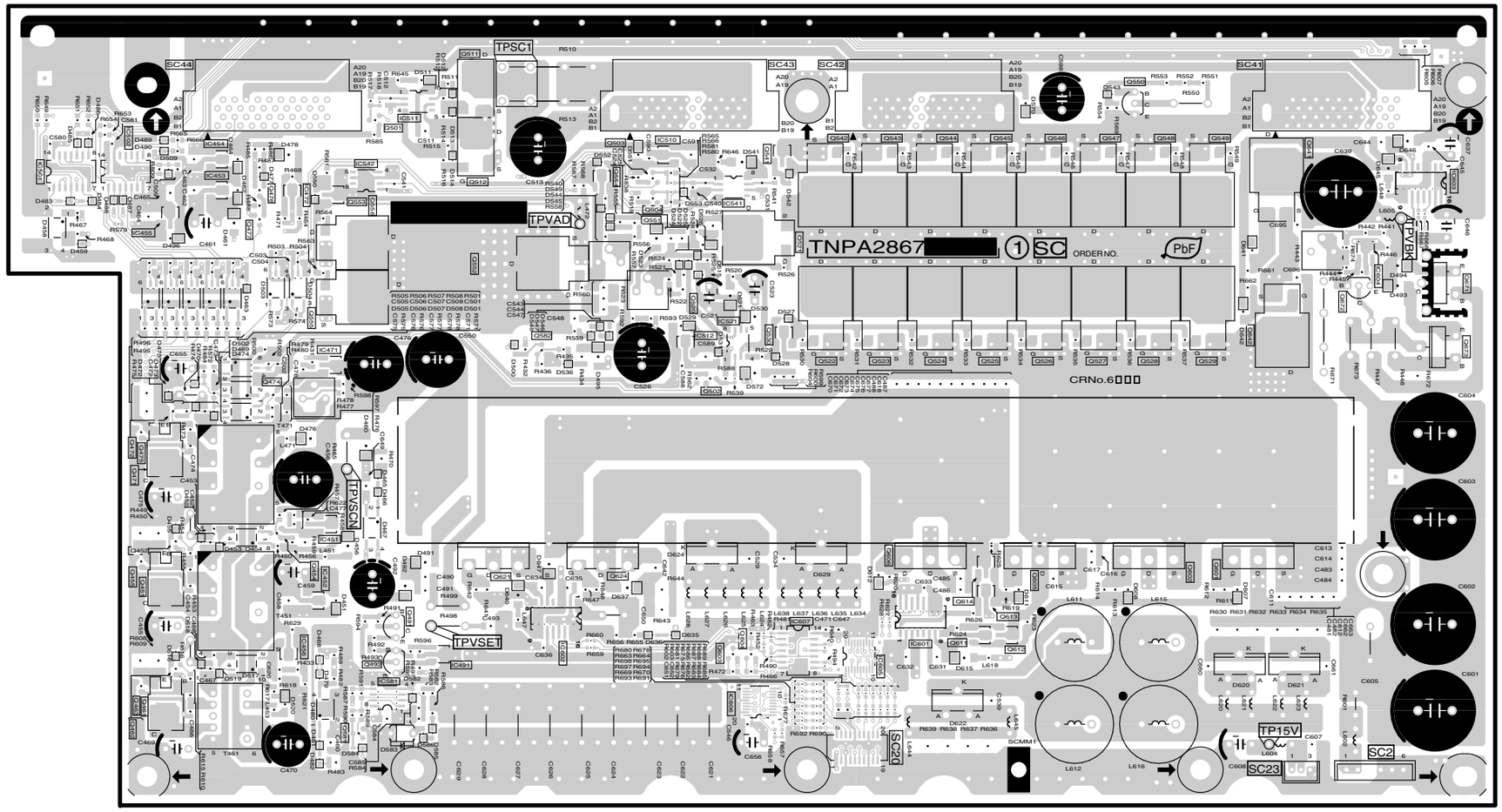


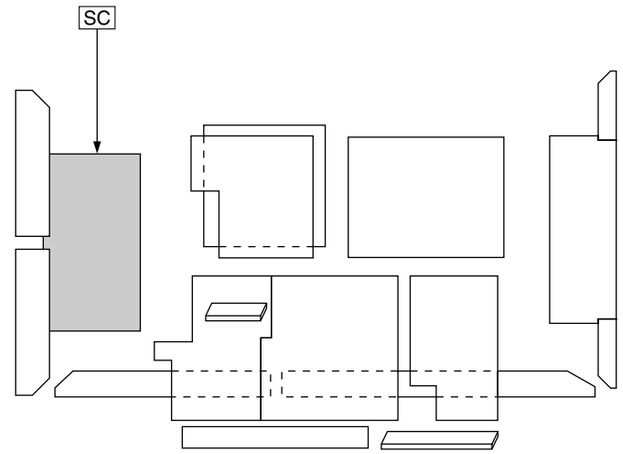
Parts Location

PF-BOARD					
IC		**TRANSISTOR**		**TP**	
IC920	C-5	Q990	A-4	TP901	B-5
IC921	C-5			TP902	B-5
IC970	D-5			TP903	B-6
				TP904	A-5
				TP977	E-6
				TP978	E-5
				TP979	E-5

TH-42PA20B/E
PF-BOARD TXNPF1QCSE

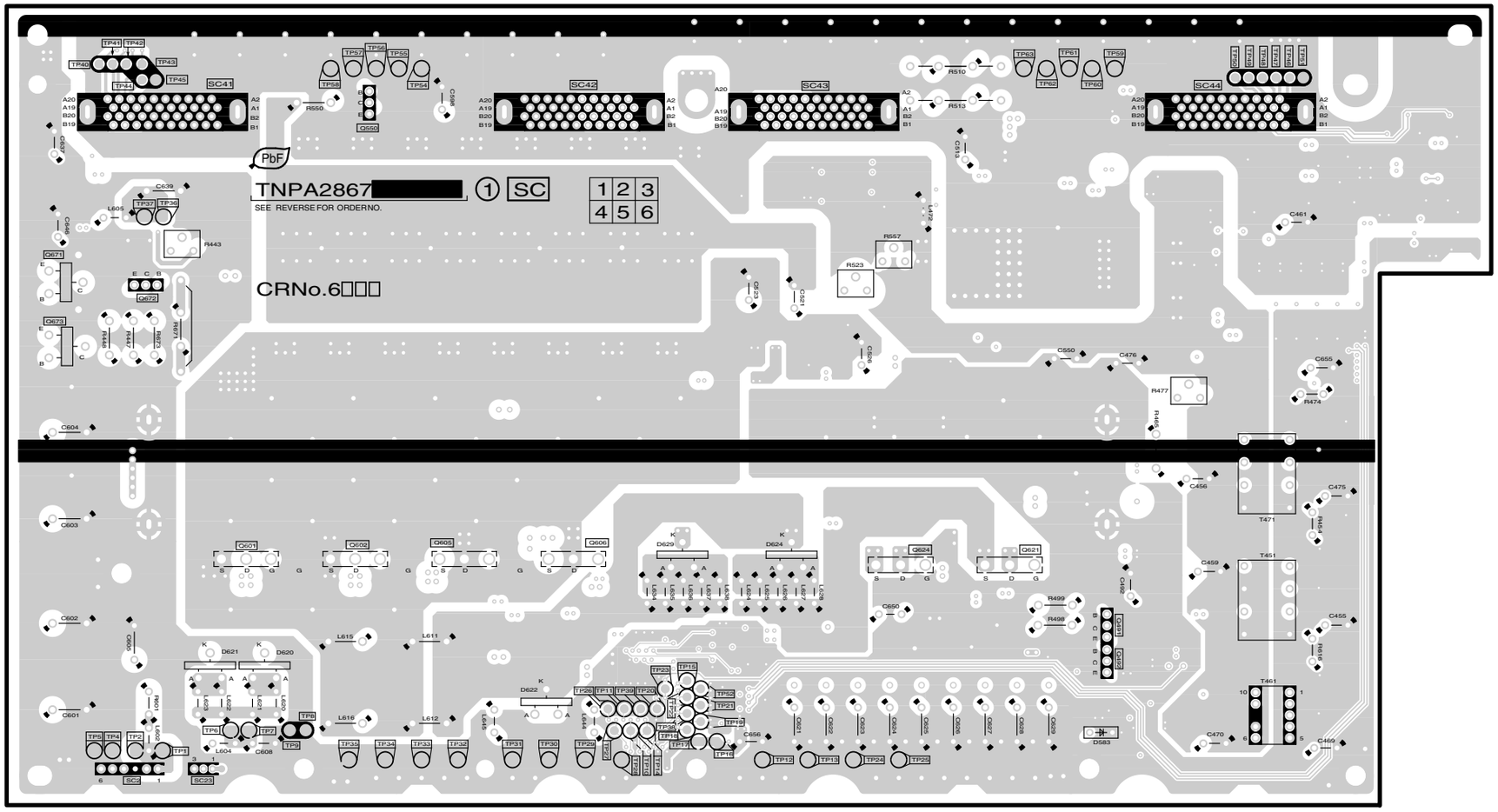
SC-BOARD(COMPONENT SIDE)
TXNSC10QBS

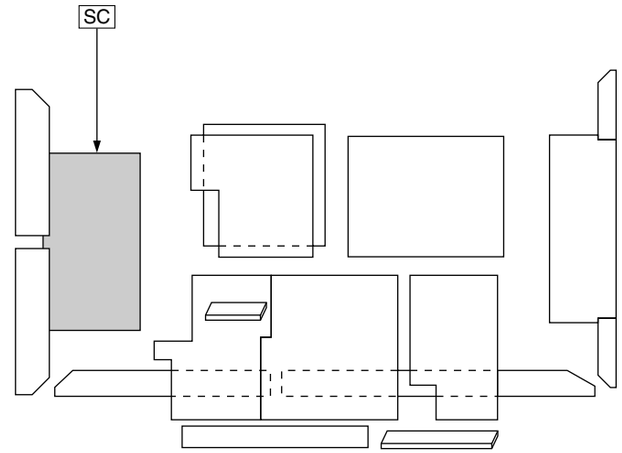




TH-42PA20B/E
SC-BOARD TXNSC10QBS

SC-BOARD(FOIL SIDE)
TXNSC10QBS





TH-42PA20B/E
SC-BOARD TXNSC10QBS